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STATE ARCHIVES AND RECORDS SERVICE
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Catalogue

1966-67

EASTERN KENTUCKY UNIVERSITY

BULLETIN

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COMMONWEALTH OF KENTUCKY
STATE ARCHIVES AND RECORDS SERVICE
DEPARTMENT OF FINANCE
FRANKFORT

MEMBER OF

Kentucky Association of Colleges, Secondary and Elementary Schools

American Association of Colleges for Teacher Education

Association of State Colleges and Universities

National Association for Business Teacher Education

Association for Field Services in Teacher Education

American Association of University Women

American Council on Education

National League for Nursing

ACCREDITED BY

Southern Association of Colleges and Secondary Schools

National Council for Accreditation of Teacher Education

National Association of Schools of Music

BULLETIN

Vol. 57 July, 1966 No. 1

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CALENDAR 1966

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1966–UNIVERSITY CALENDAR–1967

FIRST SEMESTER

September 9	Friday	10:00 a.m.	Assembly of Faculty, Administrative Staff, and other employees.
September 9	Friday	4:00 p.m.	Faculty Meeting.
September 9	Friday	5:30 p.m.	Faculty Reception.
September 9	Friday	6:30 p.m.	Faculty Dinner.
September 12	Monday	8:00 a.m.	Classification tests and pictures for first semester Freshmen and transfer students.
September 13	Tuesday	8:00 a.m.	Classification tests and pictures for first semester Freshmen and transfer students.
September 13	Tuesday	1:00 p.m.	Advance Registration
September 14	Wednesday	8:00 a.m.	Registration of Freshmen.
September 15	Thursday	8:00 a.m.	Registration of Freshmen.
September 15	Thursday	1:00 p.m.	Registration of upper classmen.
September 16	Friday	8:00 a.m.	Registration of upper classmen.
September 17	Saturday	8:00 a.m.	Registration of Graduate and Inservice students (Saturday and Evening classes will register and late Registration).
September 19	Monday	8:00 a.m.	Classes begin.
September 26	Monday		Last day to enter a course.
October 8	Saturday		Last day on which a course may be dropped without a grade.
November 21	Monday	10:00 a.m.	Mid-semester reports to Registrar.
November 23	Wednesday	12:00 noon	School closes for Thanksgiving holiday.
November 28	Monday	8:00 a.m.	Class work resumes.
December 20	Tuesday	5:00 p.m.	Christmas holiday begins.
January 4	Wednesday	8:00 a.m.	Class work resumes.
January 23-26			Final examinations.
January 27	Friday	5:00 p.m.	Close of first semester.

SECOND SEMESTER

February 1	Wednesday	8:00 a.m.	Registration.
February 2	Thursday	8:00 a.m.	Registration.
February 3	Friday	8:00 a.m.	Registration.
February 4	Saturday	8:00 a.m.	Registration. (Saturday and Evening classes will register).
February 6	Monday	8:00 a.m.	Classes begin.
February 13	Monday		Last day to enter a class.
March 2	Thursday		Last day on which a course may be dropped without a grade.
March 31	Friday	10:00 a.m.	Mid-semester reports to Registrar.
April 10-15			Spring Vacation.
May 28	Sunday	2:30 p.m.	Baccalaureate Service.
May 29	Monday	10:00 a.m.	Commencement.
May 30-June 2			Final examinations.
June 2	Friday	5:00 p.m.	Close of second semester.

SUMMER SCHOOL—1967

June 12	Monday	8:00 a.m.	Summer school registration.
June 13	Tuesday	8:00 a.m.	Classes begin.
June 13	Tuesday		Last day to register for a full load.
June 19	Monday		Last day to enter a course.
August 3	Thursday	7:30 p.m.	Commencement.
August 4	Friday	5:00 p.m.	Close of summer school.

EASTERN KENTUCKY UNIVERSITY

OFFICIAL CATALOGUE

1966-67

PART 1

THE UNIVERSITY

EASTERN KENTUCKY UNIVERSITY
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FOUNDED 1906
RICHMOND

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All statements in this publication are announcements of present policies only and are subject to change at any time without prior notice. They are not to be regarded as offers to contract.

This bulletin was prepared by Eastern Kentucky University, edited by the Office of Public Affairs and paid from state funds

EASTERN KENTUCKY UNIVERSITY . . .

Dedicated to Serving Kentucky Since 1906

INTRODUCTION

Eastern Kentucky University is a coeducational public institution of higher education offering general and liberal arts programs, and professional training in education and other fields at the undergraduate and graduate levels. Located in Richmond, Madison County, Kentucky, the campus embraces approximately 325 acres of gently-rolling bluegrass slopes. The main campus centers around a replica of an ancient Greek amphitheater seating 2,500 persons. The natural beauty of the area is enhanced by an abundance of trees and shrubs. The University is housed in 41 buildings with further expansion underway.

Richmond is on the main line of the L & N Railroad, 112 miles south of Cincinnati, Ohio. Situated twenty-six miles southeast of Lexington, Kentucky, Richmond is conveniently reached by automobile over Interstate 75 from Northern Kentucky and Cincinnati to the North and over U. S. Route 25 (Dixie Highway) from Southeastern Kentucky. Richmond is also served by U. S. Route 227 and Kentucky Route 52. Combinations of major highways in the state with these highways make Richmond easily accessible from Eastern and Northeastern Kentucky as well as the Bluegrass and Central Kentucky areas and the Metropolitan area of Louisville.

Completion of Interstate Highways, I-64 (East-West) and I-75 (North-South), and the Eastern Kentucky Turnpike, will provide even greater convenience in automobile travel to Richmond, since the city is located near the convergence of these three arterial highways.

Richmond, the county seat of Madison County, is an expanding community of approximately 13,000 population. Served by fine churches representing most Christian faiths, the community provides an excellent environment for the University student.

In and around Richmond are many areas of historic and scenic interest. Boonesborough, birthplace of Kentucky, is located twelve miles to the North. Many other historical places are within easy driving distance. Scenic and recreational areas surround this section of the state.

HISTORY

The General Assembly of 1906 enacted legislation establishing the Eastern Kentucky State Normal School. Governor J. C. W. Beckham signed the bill into law on March 21, 1906, and on May 7 of that year, the Normal School Commission, meeting in Louisville, selected the campus of old Central University in Richmond, Kentucky, as the site of the new school. On June 2, 1906, Ruric Nevel Roark was chosen President of the Normal school and the training of teachers was initiated.

In 1922, Eastern became a four-year institution known as the Eastern Kentucky State Normal School and Teachers College. The first degrees were awarded by this institution in 1925. In 1928, the College was accredited by the Southern Association of Colleges and Secondary Schools. In 1930, the General Assembly renamed the school as the Eastern Kentucky State Teachers College.

In 1935, a graduate program was approved at Eastern, leading to the Master of Arts in Education. In 1948, the General Assembly removed the word "Teachers" from the name of the College and granted the College the right to award non-professional degrees.

The most historic day since its founding came for Eastern February 26, 1966, when Governor Edward T. Breathitt signed into law a bill renaming the institution Eastern Kentucky University and sanctioning the awarding of graduate degrees in academic fields other than education.

During this period of time, Eastern Kentucky University has increased rapidly in size and stature. Beginning with a few students engaged in short review and certificate courses, the University today serves thousands of Kentucky's young men and women by offering a curriculum leading to the Bachelor of Arts, or Bachelor of Science degree in teacher education, or in general or professional areas, and an expanding graduate program that presently offers new degrees on the Master's level in English and History, in addition to the well-established Master of Arts degree in Education and the fifth- and sixth-year leadership programs in education.

Ever-mindful of the purpose of its founding, Eastern continues to recognize its historic function of preparing quality teachers for the elementary and secondary schools of the Commonwealth. However, a strong liberal arts curriculum leading to appropriate degrees, together with pre-professional courses in several areas and graduate programs, enable Eastern to serve the Commonwealth as a general university.

PURPOSE

The purpose of Eastern Kentucky University is to provide for its students those intellectual and cultural pursuits which will develop in them habits of scholarship and intellectual curiosity; which will provide for them a deep understanding of American democracy and their role in maintaining its strength and vitality; which will imbue them with an understanding of man and his aspirations; and which will enable them to communicate effectively and efficiently.

Within this general purpose, the University has three more specific purposes: (1) to provide instruction in the arts and sciences, in business, in professonal education, and in technological subjects; (2) to provide service to the community and region through the faculty serving as consultants in their fields of specialization and engaging in research dealing with problems of our society, and (3) to engage in research to advance knowledge in the subject matter areas with which the various colleges of the University are concerned.

These purposes of the University are accomplished through the Central University College, College of Arts and Sciences, College of Business, College of Education, College of Applied Arts and Technology, and the Graduate School.

The Central University College has responsibility for students during the first two years of the four-year undergraduate program. It organizes and maintains a centralized counseling program to assist students in selecting an appropriate curriculum and it implements a sound and well integrated general education program.

The College of Arts and Sciences provides, in cooperation with the Central University College, for all undergraduate students in the University. It also provides advanced study in various disciplines and offers courses which are intended to prepare the student for later study in professional fields such as medicine, dentistry, medical technology, engineering, law, social work, and the ministry. It provides the academic specialization for students working for teacher certification in elementary and secondary education.

The College of Business provides one-, two-, and four-year programs for students preparing to enter business occupations. The one- and two-year programs are designed specifically to provide the specialized training needed for successful vocational careers. The four-year programs are based upon a liberal education as a foundation for personal and career development throughout the students' working life. Four-year students are expected to take a group of courses built around the functional areas of business to attain a strong foundation in business procedures, policies, and forms of analysis. They may specialize in several areas of business, such as accounting, business teaching, economics, finance, management, marketing, and secretarial work.

The College of Education assumes major responsibility for the preparation of elementary school teachers; prepares students minoring in psychology and library science; cooperates with the Colleges of Arts and Sciences, Business and Applied Arts and Technology in programs designed to prepare secondary education majors; cooperates with the Graduate School in the development and implementation for the advanced preparation of elementary teachers, secondary teachers, guidance counselors, supervisors, school principals, and superintendents; assists local school districts in in-service education programs; and, provides professional leadership (through teaching, research, publication, workshops, conferences, and consultant services) in education at the local, state, and national levels.

The College of Applied Arts and Technology prepares teachers of technical subjects within the fields of industrial arts and home economics and offers programs of study to prepare individuals for technical occupations and professions in agriculture, nursing, industrial technology, home economics, law enforcement and crafts. These programs range in length from two to four years. Its faculty is sensitive to emerging, as well as existing technical occupations and professions that require college-trained personnel. New curricula are developed, in keeping with the resources of the institution, to meet such demands.

The Graduate School provides course offerings leading to the Master of Arts in Education, English, and History, and to Rank I Certification for both elementary and secondary teachers. Graduate work is planned to meet the needs of elementary and secondary teachers and to provide curricula for supervisors, principals, superintendents, attendance officers, guidance counselors, public school librarians, and reading specialists. Programs for the Master of Arts and Master of Science degrees in other academic fields are being prepared.

THE CAMPUS

The Eastern campus is endowed with great natural beauty, enhanced by the thoughtful selection and placement of trees and shrubs. The various academic buildings, dormitories, and other buildings are centered around the amphitheater and reflect several styles of design. The map on the inside of the back cover shows the lay-out of the campus. Following are brief descriptions of the major buildings and facilities at Eastern Kentucky University.

ACADEMIC BUILDINGS

ALUMNI COLISEUM

The Alumni Coliseum houses facilities for physical education, general college classrooms and a basketball playing arena. The physical education facilities include auxiliary gymnasiums, special purpose rooms, locker and shower spaces and both indoor and outdoor swimming pools. Classrooms are included for general university use. Spectator seating will accommodate approximately 6,500 persons for basketball games and approximately 7,500 persons for convocations, lectures, and similar events. The building provides office space for Physical Education faculty, Department of Athletic staff and R.O.T.C. staff.

BERT COMBS BUILDING

The Bert Combs Building was named to honor a former governor of the Commonwealth of Kentucky. Completed in 1964, the building houses the Colleges of Business and Education, and the Departments of English, Speech and Drama, and Political Science. The four-story building is completely air-conditioned and provides teaching stations for 2,200 students. It contains two large lecture rooms and provides offices for members of the faculties of these departments. Of striking design, the exterior of the building is faced with cut limestone and provides a unified concept in the heart of the academic campus.

CAMMACK BUILDING

The James W. Cammack Building was named to honor an appointee to the first Board of Regents of the University in 1906. In the summer of 1961, this building was completely renovated and is currently used to house the Art Department, Foreign Language Department, and other departments of the University. The exhibit room of the Art Department is located on the first floor and a modern, well-equipped language laboratory on the second floor is used by the Foreign Language Department.

COATES ADMINISTRATION BUILDING

The Thomas Jackson Coates Administration Building was named in honor of Eastern's third president. The offices of the President, Vice President for Academic Affairs, Dean of Admissions and Registrar, Dean of Public Affairs, Dean of Business Affairs, and other administrative personnel are located in this building. The building contains the Hiram Brock Auditorium which has a seating capacity of 1,700. The auditorium has a stage 40 feet by 30 feet, equipped with adequate curtains and drops, and a modern motion picture projection room. In 1965 a thorough renovation of this facility was completed. In this renovation the building was completely air-conditioned and refurbished, a 40-rank Holtkamp pipe organ was installed in the Brock Auditorium.

CRABBE LIBRARY

The John Grant Crabbe Library, named to honor Eastern's second president, occupies a central and convenient position on the campus. A major reconstruction of this facility in 1965-66 enlarged the library to 140,000 square feet of floor space. The design provides diversified stacks with adjacent study areas. Individual study carrels are located throughout the building. Fully air-conditioned, the library provides seating space for approximately 2,700 students simultaneously, and will eventually contain 500,000 volumes.

DONOVAN BUILDING

The Donovan Building, named to honor the late Dr. Herman Lee Donovan, fourth president of Eastern Kentucky University and President Emeritus of the University of Kentucky, was first occupied in September of 1961. This building consists of several units housing the laboratory school of Eastern Kentucky University, and provides college classrooms. The facility is complete in all respects, utilizing modern concepts in design and equipment. Facilities are included for the laboratory school, from the kindergarten through the twelfth grade, with appropriate units designed for physical education, music, arts and crafts, and general academic work at the elementary and secondary levels. Completely air-conditioned, this building compares favorably with any similar facility in the nation. In 1965, construction of an addition to the Donovan Building was begun. This addition provides additional elementary classrooms, a nursery school, and studios for educational television and FM radio.

FITZPATRICK ARTS BUILDING

This building was named to honor H. D. Fitzpatrick, Sr., a long-time member of the Board of Regents of the University. The Fitzpatrick Arts Building houses the departments of Industrial Arts and Home Economics. The Gibson Addition to the building in 1961 added to the Industrial Arts shop and classroom facilities.

HOME ECONOMICS AND NURSING BUILDING

The departments of Home Economics and Nursing will be housed in a new four-story structure by the Fall of 1967. The building will contain lecture halls, research and study areas, 18 classrooms and a "family-living center."

MOORE SCIENCE BUILDING

The departments of Biology, Chemistry, and Physics will be housed in the Moore Science Building, expected to be completed by Fall of 1967. The air-conditioned building will contain offices, laboratories and large lecture areas in addition to regular-sized classrooms. It is named to honor Dr. W. J. Moore, retired dean of the faculty.

STEPHEN COLLINS FOSTER MUSIC BUILDING

The Stephen Collins Foster Music Building houses the Music Department and provides classrooms for other divisions of the University. Facilities include, in addition to classrooms, nineteen practice rooms, ten studios, a band room and a chorus room, a number of auxiliary rooms such as offices for the head of the Music Department and the band director, listening rooms for music appreciation, student and faculty lounges, and storage and locker space. The building was air-conditioned in the spring of 1961.

ROARK BUILDING

Roark Building was named to honor Dr. Ruric Nevel Roark, Eastern's first president. In 1965, this building was renovated, refurbished and completely air-conditioned. The building will provide facilities for the departments of Mathematics, Geography and Geology, Anthropology and Sociology.

SCIENCE BUILDING

The Science Building is a modern four-story structure housing spacious, well-equipped laboratories and lecture rooms for the departments of Biology, Chemistry, and Physics.

TURLEY HOUSE

The Turley House is the residence for those students in the Home Economics Department who take the laboratory course in household management. Here the girls live and work together for nine weeks, cooperatively preparing their own meals, doing their own marketing, entertaining their guests, and making a pleasant home life for themselves.

UNIVERSITY BUILDING

The University Building was constructed in 1874 to house Central University. This four-story brick structure is the oldest academic building on the campus. In the summer of 1961 the building was completely renovated to house the J. T. Dorris Museum and the departments of History and Social Studies.

WEAVER HEALTH BUILDING

The Weaver Health Building is named for the late Charles F. Weaver of Ashland, Kentucky, who served on the Board of Regents at Eastern from 1920 to 1932. In 1965, a renovation of this building was completed, converting it into a health and physical education facility for women students. The building provides a large gymnasium, a spacious modern dance studio, an official size tile swimming pool, handball courts, several classrooms, and faculty offices.

RESIDENCE BUILDINGS

BURNAM HALL

Burnam Hall was named for Judge A. R. Burnam, who served in the Kentucky General Assembly, and helped Eastern secure her first significant appropriation. It provides beautiful, comfortable, and fireproof living quarters for 370 students. Most of the rooms are arranged in suites of two with a connecting bath. A few rooms have private baths.

CASE HALL

Case Hall was named to honor Mrs. Emma Y. Case, Dean of Women of the College from 1932 until her retirement in 1962. The dormitory provides living accommodations for 550 women students. In addition to bedrooms, the building contains spacious reception, lounge, parlor and recreational spaces. A large grill provided in the dormitory will seat approximately 175 persons.

McGREGOR HALL

McGregor Hall is a six-story dormitory designed to provide excellent living accommodations for 448 women students. This dormitory is completely air-conditioned and includes lounge and recreational spaces. This facility, named to honor Judge Thomas B. McGregor, a current member of the Board of Regents, was first occupied in September, 1964.

SULLIVAN HALL

Sullivan Hall is a dormitory for women and accommodates 172 students. It was named for the first local regent, Jere A. Sullivan, who helped establish the first two normal schools in Kentucky. Sullivan Hall is a comfortable and convenient home for the women who live there. Central baths are located on each floor of the building.

BECKHAM HALL, McCREARY HALL, AND MILLER HALL

Beckham Hall, Miller Hall, and McCreary Hall are three units so designed as to form a complex. Each of the dormitories provides accommodations for forty-eight men students. The rooms in these three halls are arranged in suites of four rooms and one bath. For each pair of such sections, one above the other, there is an outside entrance. Office and lounge facilities for these halls are located in Beckham Hall.

Beckham Hall is named for the late J. C. W. Beckham, who was Governor of Kentucky when Eastern was founded. McCreary Hall is named for James B. McCreary, a Richmond citizen, who twice served the State as Chief Executive. Miller Hall is named for Robert W. Miller, a Madison countian, who introduced in the lower house of the General Assembly a bill establishing Eastern.

EARLE B. COMBS HALL

Combs Hall replaced Memorial Hall and forms a quadrangle with Keith, Miller, Beckham and McCreary Halls. This dormitory, completely air-conditioned, provides living spaces for 238 men students. Lounge and recreational facilities are included in the facility.

The hall was named to honor Mr. Earle B. Combs, Sr., a member of the Board of Regents of the University.

KEITH HALL

Keith Hall, a dormitory for men, is a modern, fireproof structure containing 88 bedrooms, a spacious lounge, offices, and auxiliary facilities. It has built-in furniture. The entire building has mechanical ventilation that is designed not only to keep a supply of fresh air in each room, but also to regulate the temperature. Keith Hall was named in honor of the late Dr. Charles A. Keith, former Dean of Men at Eastern Kentucky University, and Mrs. Keith.

O'DONNELL HALL

O'Donnell Hall is a four-story fireproof structure containing 100 bedrooms for men students. This hall was occupied for the first time in February, 1959. A spacious and beautifully furnished lounge, a post office with individual mail boxes, and an adequate parking lot make this residence hall a very well equipped facility. This hall was named to honor Dr. W. F. O'Donnell, President-emeritus of Eastern Kentucky University.

MARTIN HALL

Martin Hall is a dormitory that houses 404 men students and contains an air-conditioned cafeteria, spacious recreation and lounge space, and service facilities.

This outstanding dormitory was named to honor Dr. Robert R. Martin, at the time of his inauguration as the sixth president of Eastern Kentucky University.

MATTOX HALL

Mattox Hall is constructed adjacent to and at right angles with O'Donnell Hall and connected to it by a colonade. This hall matches O'Donnell Hall in all respects and, in addition, contains a snack bar and recreation facilities. This dormitory was occupied for the first time in 1961. Mattox Hall was named to honor M. E. Mattox, Registrar of the University from 1925 to his retirement in 1961.

TODD HALL

Todd Hall, one of the twin towers, is a twelve story dormitory that provides space for 320 men students and is fully air-conditioned. Todd Hall was named to honor Dr. Russell I. Todd, a current member of the Board of Regents.

DUPREE HALL

Dupree Hall, the other twin tower, matches Todd Hall in design and capacity. Fully air-conditioned, this men's dormitory, occupied in the summer of 1964, was named to honor Mr. F. L. Dupree, a current member of the Board of Regents.

PALMER HALL

Palmer Hall is a completely air-conditioned dormitory providing living facilities for 300 men students. The building was named to honor Mr. Wilson Palmer, a member of the Board of Regents.

SIDNEY CLAY HALL

Sidney Clay Hall, named to honor a member of the Board of Regents, provides living accommodations for 420 women students. The dormitory is completely air-conditioned and includes lounge facilities and other service spaces. The building contains a modern cafeteria which seats approximately 300 people.

BROCKTON

Brockton is the family housing project at Eastern. It consists of 144 modern fire-resistant apartments in all. There are 72 efficiency units, 41 one-bedroom units, and 32 two-bedroom units.

The apartments are furnished with an electric refrigerator and gas range. The efficiency units also contain a sleeper couch and a five-piece dinette set. Each apartment has an individual thermostatically-controlled gas furnace, tile floors, and accoustical ceilings. The bath includes both shower and tub. A coin-operated laundry with both washers and driers is conveniently located in the project area.

Brockton was named in honor of George Marshall Brock, who has been associated with the University since 1918, and as Business Agent or Comptroller since 1923.

TRAILER PARK

A modern trailer park has been constructed adjacent to Brockton. Paved roadways, landscaped area, adequate space and complete utility services are included. The park accommodates trailers of all sizes.

VICKERS VILLAGE

Vickers Village provides modern housing for faculty members and their families in its 34 units. There are 18 two-bedroom apartments in nine duplexes, and 16 two-bedroom apartments located in two eight-unit buildings. The Village is located just off the Eastern by-pass. It is named for John L. Vickers, executive assistant to the President.

COMMONWEALTH HALL

Tallest of Eastern's residence halls, this 21-story structure will house 545 men when completed in January, 1967. Located near the corner of Kit Carson and Park Drives, the air-conditioned dorm will have 272 bedrooms located on 17 floors, with offices, lounges, recreation and laundry facilities on the other four floors.

SINGLETON P. WALTERS HALL

Latest of Eastern's modern student housing units, the nine-story women's residence hall will house 404 coeds when completed during the 1966-67 school year. Completely air-conditioned, it will also contain recreational and lounging facilities.

OTHER FACILITIES

In addition to the residence units listed herein, the University owns or operates several other facilities for the housing of students. Among these are the Lancaster House and Stateland House for single men students and several apartments and dwellings on campus for the housing of faculty and staff.

OTHER BUILDINGS

JOHNSON STUDENT UNION BUILDING

The Keen Johnson Student Union Building contains club rooms for students, recreation halls, the Little Theatre, bookstore, soda fountain and grill, cafeteria, faculty rooms, and a spacious reception room. It was named in honor of a former Governor of Kentucky who was a member of the Board of Regents at the time it was constructed. In 1961 the Student Union Building was renovated and refurnished to provide more extensive services for students, faculty and friends of the University.

BLANTON HOUSE

The two-story brick residence, which is the President's Home, was constructed in 1886 as a residence for the Chancellor of Central University but did not become the property of the University until 1912. This residence has served as the home of Eastern's presidents since that date.

HANGER STADIUM

The Hanger Stadium was built by a donation from Mr. Arnold Hanger together with gifts from students, faculty, and friends of the University and supplemented by a Federal grant. The stadium has a seating capacity of 8,000 persons for intercollegiate football.

AULT SERVICE BUILDING

The Ault Service Building was named in honor of William A. Ault, who served the University for 45 years as Superintendent of Buildings and Grounds.

This modern facility was completed in 1962. The building not only provides modern shops and office space for the entire maintenance department, but serves as a central supply and storeroom for all departments on the campus.

UNIVERSITY FARM

The University operates a modern farm, engaging in dairying and production of various crops. The farm operation is located away from the main campus and is housed in up-to-date buildings, providing modern sanitary facilities for the production of food products.

PART 2

INFORMATION FOR THE STUDENT

EASTERN KENTUCKY UNIVERSITY
UNITED WE STAND ★ DIVIDED WE FALL
FOUNDED 1906
RICHMOND

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EXPENSES AND LIVING ACCOMMODATIONS

REGISTRATION FEES AND OTHER EXPENSES

The following list of fees is required of students. All fees must be paid at the time of registration. Incidental fees paid each semester entitle the student to use of the library, to use of the Student Union Building, and to other services as directed by the Board of Regents.

Registration and Incidental Fees (Per Semester)		Kentucky Resident	Out-of-State Resident
Registration Fee:			
Full-time—Graduate and Undergraduate		$100.00	$270.00
Part-time—Undergraduate (Fewer than 12 Semester Hours), per hour		9.00	22.50
Part-time—Graduate (Fewer than 9 semester Hours), per hour		12.00	30.00
Incidental Fee:			
Full-time		20.00	20.00
Includes: Health fee	$3.00		
Student Union fee:			
Classroom fee	5.00		
Activity fee	8.25		
Yearbook	3.75		
Part-time		2.50	2.50
Includes: Classroom fee			
(Summer Term)			
Registration and Incidental Fees			
Registration Fee:			
Full-time—Graduate and Undergraduate		50.00	135.00
Part-time—Undergraduate (Fewer than 6 Semester Hours), per hour		9.00	22.50
Part-time—Graduate (Fewer than 6 Semester Hours), per hour		12.00	30.00
Incidental Fee:			
Full-time		10.00	10.00
Includes: Health fee	$1.50		
Student Union Fee:			
Classroom fee	2.50		
Activity fee	6.00		
Part-time		1.25	1.25
Includes: Classroom fee			

Special Fees	Per Course
Home Economics	
204, 215	$ 7.50
302	5.00
Health and Physical Education	
Locker Fee	4.00
Music	
Class Instruction, per semester	
Class Winds and/or Class Strings	5.00
Class Piano and/or Class Voice	12.00
Individual Instruction, per semester	
All instruments and voice	
Two lessons per week	37.50
One lesson per week	25.00
Practice Room, Piano, Voice, one hour daily per semester	5.00
Practice Room, String and Wind Instruments, one hour daily per semester	2.50
Use of college-owned instrument, string or wind, per semester	5.00
Military Science	
Uniform Deposit	7.00
Other Expenses	2.00

Other Expenses

Late Registration Fee (per day late)	1.00
Voluntary change of schedule	1.00
Transcript Fee (other than initial copy)	1.00
Graduation Fee (includes cost of diploma, cap and gown rental, and other graduation expenses)	
Baccalaureate Degree	7.50
Master's Degree	20.00
Post Office Box Rent	1.00
Return Check Fine	5.00

(All fees are subject to change without notice)

UNIVERSITY YEARBOOK

A portion of the incidental fee each semester goes toward the cost of the university yearbook, the *Milestone.* The portion collected the first semester provides for the student photograph to be included in the yearbook. The portion collected the second semester provides for the printing cost of the yearbook.

DEFINITION OF RESIDENT STUDENT FOR FEE ASSESSMENT PURPOSES

The following policy, adopted by the Council on Public Higher Education, Commonwealth of Kentucky, in accordance with Section 164.020(2) of the Kentucky Revised Statutes, is applied to determine a student's eligibility for fees assessed Kentucky residents who enroll at any of the state-supported institutions of higher learning in the Commonwealth of Kentucky. This determination is made at the time of initial enrollment and shall not be changed thereafter except as provided below.

A student under twenty-one years of age is eligible to register as a resident of Kentucky if his parent or legal guardian has maintained continuous residence in the Commonwealth for twelve months immediately preceding his original enrollment. No person shall be considered to have gained residence in the Commonwealth while a student unless or until his parent or legal guardian moves into the Commonwealth and acquires residence. If a student is registered as a resident of the Commonwealth and his parent or legal guardian thereafter moves out of the Commonwealth, the student will become a non-resident at the beginning of his next enrollment. If the parents have different domiciles, the domicile of the parent who has legal custody of the student's person shall be considered the domicile of the student.

A student twenty-one years of age or older is eligible to register as a resident if he has maintained continuous residence in the Commonwealth for twelve months immediately preceding the date of his original enrollment, exclusive of any time spent in attendance at any institution of higher learning. An adult student registered as a non-resident upon his original entrance cannot generally thereafter acquire resident status.

An adult student from out-of-state who seeks residence status must assume the burden of proving conclusively that he has been a resident of the Commonwealth the requisite time with the present intention of making his permanent home in this state. In general, it is assumed that the intent to remain indefinitely in the Commonwealth is evidenced not only by what a person states but what a person has actually done. Normally, persons with intent to establish residence will be expected to have done all those things which a person customarily does when establishing a permanent residence, some of which are: obtaining full time employment, establishing a home, buying property, filing tax returns, transferring or establishing church membership, affiliating with local organizations, and the various other things which give evidence of intent to remain indefinitely within the Commonwealth.

Each Board of Trustees or Board of Regents is authorized to establish a Non-Resident Fees Committee to consider changes in resident status based on the above criteria. Application for change of resident classification should be made to the person who has been designated by the Board of Trustees or Regents as the Chairman of the Non-Resident Fees Committee. The Chairman will present each case to the Committee for a final decision.

This policy shall be applicable with exceptions allowable for possible conflicts with state and federal laws relating to residency such as the Federal Soldiers and Sailors Relief Act.

LIVING ACCOMMODATIONS

Eastern Kentucky University maintains a number of residence halls for single students. Within limits of the capacities of these halls all single students not living at home are **required** to live in University facilities. No single student should make a housing contract to live in town unless permission has been secured from the Dean of Students. When the capacity of the halls has been reached, single students may secure lodging in Richmond homes. Names and addresses of those who have rooms for rent will be listed with the Housing Secretary. The student applicants must select rooms from the lists in the Housing Secretary's Office, Coates Administration Building. All students, whether living in University or private facilities, are subject to regulations and supervision of the University. Single students will not be given permission to live in apartments and trailers.

All rooms have single beds for which pillows and linens are furnished. The University bears the expense of having these sheets and pillow cases laundered. Each student is expected to provide his own blankets, towels, window drapes, and similar articles.

	Rent for Semester (Includes $7.00 Linen Service)	Rent for Summer (Includes $4.00 Linen Service)
Residence Halls for Women		
Burnam	$105.00	$52.50
Case	105.00	52.50
McGregor	115.00	57.50
Sidney Clay	115.00	57.50
Sullivan	105.00	52.50
Residence Halls for Men		
Combs	$115.00	$57.50
Dupree	115.00	57.50
Keith	105.00	52.50
Martin	105.00	52.50
Mattox	105.00	52.50
Miller, Beckham, and McCreary	105.00	52.50
O'Donnell	105.00	52.50
Palmer	115.00	57.50
Todd	115.00	57.50

(All housing charges are subject to change without notice)

RESIDENCE HALL POLICIES

All students desiring housing at Eastern Kentucky University should complete an application for a room reservation and forward it to the Dean of Students, Eastern Kentucky University, Richmond, Kentucky.

An advance rental payment of $50.00 should accompany the application. This payment is necessary before a reservation will be made. It will be applied to the rent for the first semester following enrollment. The advance payment will be refunded in full if cancellation is received by August 15 for the first semester, January 15 for new students for the second semester, or May 15 for the summer term respectively.

Reservations will be held only through the day preceding the first day of classes, unless students have made arrangements with the Residence Hall Director for late arrival.

Refunds of rent after a room is accepted shall be made only in exceptional instances. In no case shall a refund of rent be made to students moving from University housing at their convenience.

Room rent is paid by the semester and is due and payable at registration.

STUDENT IDENTIFICATION CARD

Each full-time student who has paid the full fees for a semester, including the activity fee, will be issued a personal identification card. This card entitles the student to admission to all athletic contests on the campus and to certain other programs sponsored by the University. It must be carried by the student at all times for official identification on the campus, and all full-time students must have a validated ID card before registration is completed.

If the card is lost, it must be replaced. A replacement fee of $10.00 is assessed. Application for replacement must be made at the office of the Dean of Students.

REFUND POLICY

Refunds of fees and room rental charges, when authorized, shall be made on a schedule based on the time elapsed during the semester or summer term. During the semester, refund of a portion of the fees and room rental paid shall be made as follows: first and second weeks, 75%; third and fourth weeks, 50%; fifth and sixth weeks, 25%. After six weeks, no refunds will be made. During the summer term, the following schedule will determine the portion refunded: first week, 75%; second week, 50%; third week, 25%. After three weeks, no refund will be made. (For the purpose of this calculation, the week will begin with the first day of registration for the semester or summer term.)

The percentage of refunds shall apply to all fees and room rentals paid, except that no refund can be made on fees collected for student insurance premiums, class dues, and similar fees.

FOOD SERVICE

The University operates several food service facilities on the campus. Large modern, air-conditioned cafeterias in the Johnson Student Union Building, Martin Hall, and Sidney Clay Hall serve attractive, wholesome meals at reasonable prices. In addition, snack bars are located in the Johnson Student Union Building, Case Hall, Martin Hall, Mattox Hall, and Weaver Health Building.

SCHOLARSHIPS, FINANCIAL AID, AND STUDENT EMPLOYMENT

SCHOLARSHIPS

The William Davis Scholarship. Under the provisions of the will of the late William Davis of Newport, Kentucky, a sum of money was left for the benefit of the student living in the Lona Estella Davis school district of Rowan County. Scholarships of $200.00 each are awarded by the Superintendent of Rowan County schools and the President of Eastern Kentucky University. A student desiring to secure one of these scholarships should write to the Chairman of Student Aid Committee, Eastern Kentucky University, or make application to the Superintendent of Rowan County Schools.

The Myrtle Mae Sloan Memorial Fund was established in 1959, in memory of Miss Myrtle Mae Sloan, by her sister, Miss Viva Odean Sloan, resident of Berea, Kentucky. The income from this fund will be paid to a high ranking student who needs help to enable him or her to remain in college.

The Lily Christopher Ogg McWhorter Memorial Fund was established in 1959, in memory of Mrs. Nina Rachel Ogg Pee and William Emery Ogg, graduates of Eastern, by their sister, Mrs. Lily Christopher Ogg McWhorter. They were all residents of Madison County. The income from this fund is to provide financial aid for persons of good ability but of little money.

In the field of Music there are three scholarships awarded annually to those students who make the most satisfactory progress in piano, voice, and violin.

Phi Delta Kappa Scholarship. The Epsilon Rho Campus Chapter of Phi Delta Kappa, an education fraternity for men in education, awards a full tuition scholarship each year to a full-time male graduate student. Applications and information may be secured by writing to the Graduate Office. Applications must be submitted by July first of each year.

ROTC Scholarships. Under the provisions of Public Law 88-647 a limited number of two year ROTC scholarships are available for award to outstanding military students who have completed the basic ROTC course. These scholarships provide for payment of tuition, fees, book costs, laboratory expenses and subsistence pay of fifty dollars ($50.00) per month. Selection of individuals will be based on criteria established by the Secretary of the Army and by action of an on-campus board consisting of the Professor of Military Science and other representatives from the faculty.

LOAN FUNDS

The National Defense Student Loan Program at Eastern provides loans for students. Priority is given to all students who have superior records in high school and college. To get application forms and a statement of conditions relating to the loans, applicants should send their requests to the Chairman of the National Defense Student Loan Fund, Eastern Kentucky University.

The Student Aid Society Inc. Loan Fund of Eastern Kentucky University is designed to help worthy students complete their education. It has been augmented from time to time by gifts from different individuals and organizations and is being increased annually. Small loans are available to upperclass students who are currently enrolled. Those having high scholastic records will be given preference in the granting of loans. This fund makes it possible for a student to borrow a small amount of money on a personal note at a legal rate of interest. Students who desire further information concerning this fund should get in touch with the Chairman of the Student Aid Committee.

STUDENT EMPLOYMENT

There is opportunity for student employment, whereby a limited number of students may earn part of their expenses by working in the cafeteria, library, bookstore, post office, dormitories, administrative offices, university dairy and farm, maintenance department, and faculty offices. Some students may also secure part-time employment in Richmond stores, restaurants, and other businesses.

Student labor should be limited so that work hours will not take too much of the student's study time. While ten hours per week is an average labor load, circumstances may permit a student to work more hours. No student, however, should enter the university without sufficient money for the semester unless there is a definite guarantee of work to support him. For further information and application forms, write to the Coordinator of Student Financial Assistance, Eastern Kentucky University.

THE WORK-STUDY PROGRAM

Under a grant from the Federal Government, made possible by the Economic Opportunity Act of 1964, eligible students may be employed on a part-time basis while in full-time enrollment at Eastern. This program supplements the part-time Institutional Program which has been in effect at Eastern for many years.

A student or prospective student from a low-income family is eligible for employment under the Federal Work-Study Program. The student must enroll for a minimum of twelve semester hours of course work each semester and maintain at least a "C" average.

Placement in jobs will depend upon the skills, interests, and aptitudes of the student and the availability of positions open at a given time. Students may work up to 15 hours per week and can earn from $15.00 to $20.25 per week, depending upon the type of job assigned. Payments are made to the student employee on a semi-monthly basis.

It is the policy of the administration that prospective students should have a high school scholastic standing of "C" or better in order to apply for student financial aid. A statement from the student's principal or guidance counselor should accompany the application to verify the high school scholastic standing.

Students may continue working under this program as long as their academic performance and job performance are satisfactory.

EDUCATIONAL OPPORTUNITY GRANTS PROGRAM

The higher Education Act of 1965 initiates a program of **Educational Opportunity Grants** to assist in making available the benefits of higher education to qualified high school graduates of exceptional financial need, and who would not be able to obtain the benefits of education without such aid. To qualify for the program, the student must be taking at least twelve semester hours of course work each semester and be an undergraduate in good standing.

This program is combined with other programs of financial assistance (the National Defense Loan Fund and the Work-Study Program mentioned above) to the extent necessary to enable the student to meet his educational expenses.

For further information and an application form, write to the Coordinator of Student Financial Assistance, Eastern Kentucky University.

OTHER FINANCIAL ASSISTANCE

The Veterans Program at Eastern Kentucky University is approved by the Veterans Administration for the education of veterans and their eligible dependents. Students concerned with veterans training should have, at the time of registration, a Certificate of Eligibility. This is secured from the Regional Office of the Veterans Administration. The University is responsible for the completion of certain Veterans Administration forms and for the other necessary information about students who receive this aid.

If you have completed courses while in the Armed Forces, ask the Registrar about the possibility of receiving credit for such courses.

VOCATIONAL REHABILITATION

Vocational Rehabilitation for students with physical handicaps of various kinds may be approved, and may receive financial benefits as approved by the Department. Students who wish to consult with a representative relative to vocational rehabilitation should write the Department of Education, Division of Special Education, Frankfort, Kentucky, for specific instructions.

STUDENT SERVICES AND ACTIVITIES

Eastern Kentucky University strives at all times to furnish services and activities which make the campus a home away from home. Our services are concerned with all phases of students' lives, and are so organized that we attempt to help every student to realize his or her own possibilities. Caring for personal and social needs, promoting the maximum growth of every student, and developing effective programs to meet the needs of a changing student body in a shifting world social scene receives high priority in the minds of our faculty, staff and administration.

Our operating policies represent the combined wisdom of students, faculty, and administration. Our services to students are coordinated through the student personnel programs and administered by a group of people who have a genuine interest in developing ideal programs to meet the needs of one of the largest student bodies in Kentucky. While it isn't possible to list in detail all the specific activities and services to students, you will find many of them described in this catalog.

It is important that students pay close attention to all official campus publications, such as Campus Calendar, **Progress**, handbooks, bulletin board announcements, etc., in order to learn of the many student services and activities.

STUDENT HEALTH SERVICES

Student health services are under the direction of the university physician. The Infirmary is staffed by registered nurses on a 24-hour per day basis. In addition to the infirmary services, the university provides instruction in first aid, safety, personal and community hygiene. In case of serious illnesses, there are three hospitals located near the university campus.

All new students must have their family physician complete a medical record which becomes a part of admissions information. After the student is admitted, the medical record is filed at the University Infirmary where the university physician and nurses may refer to the information in order to be of greater assistance to those who use the Infirmary services.

STUDENT AUTOMOBILES

On July 9, 1962, the Council on Public Higher Education adopted a policy concerning the possession and operation of motor vehicles by students at the University of Kentucky and the five State colleges. In conformance with the Council policy, Eastern has adopted the following: Students registered as freshmen (0-29 hours) do not have auto privileges. All sophomores (30-59 hours) with less than a "B" average are forbidden to possess and/or operate a motor vehicle in the Eastern-Richmond area. Sophomores with a "B" average or above who are not on social probation are eligible for auto privileges. All juniors and seniors who are not on academic or social probation are also eligible for auto privileges.

Students who bring motor vehicles to the Richmond-Eastern area and are not eligible for automobile privileges will be asked to return the vehicle to their homes immediately. They will be subject to the motor vehicle regulations which impose assessments for violating the policy.

GUIDANCE AND COUNSELING SERVICES

The student personnel services of the University are related to: (1) Admission of new students; (2) Orientation of Freshmen; (3) Evaluation and counseling of students; (4) Mental and physical health; (5) Provision for well-rounded student activities; (6) Supervision of adequate living facilities; (7) Maintenance of useful personnel records; and (8) Vocational information. Files on occupations and job opportunities are available on campus.

Many staff members handle various aspects of the student personnel work. The Dean of Students and his staff, together with all members of the faculty, provide counseling for students. Counsel, relative to social life, living facilities, and related problems of students, and other specialized guidance as needed by students and as implied by a modern philosophy of education, is readily available.

All new students at Eastern are assigned to an academic counselor to guide them toward the initiation of a successful college career. Additionally, students have counseling contacts with dormitory counselors, dormitory directors, head residents, and other personnel assigned to the Office of Student Affairs.

Optional services are available to help individuals with their planning, and clinical services are arranged to meet special needs. All personnel activities are designed to be practical in that they are provided to help students attain a maximum personal, social, and academic development in a stimulating environment.

Many types of tests are utilized in the university program. All freshman and transfer students participate in a testing program. The results are used in counseling, placement, and scheduling of classes. Several departments give tests for the purpose of locating talent, interests, and aptitudes of the student body. The graduate school gives tests for admission to their programs. The Director of Research and Testing administers the testing program, and scores are transferred to each student's folder.

ATHLETICS AND RECREATION

Eastern offers a fine and varied athletic and recreational program for both men and women students. It consists of three major programs: Intercollegiate Athletics, Intramurals for Men, and Women's Recreation Association activities for women.

Eastern Kentucky University is a member of the Ohio Valley Athletic Conference and the National Collegiate Athletic Association. The Ohio Valley Conference annually produces teams that have top ranking among universities and colleges in the United States. In addition to these conference contests, representative teams from other parts of the country are scheduled. Intercollegiate competition is carried on in eight different sports. They are: football, basketball, swimming, tennis, golf, track, cross country, and baseball.

SOCIAL ACTIVITIES

The Social Committee of the University arranges a multitude of social activities for the benefit of Eastern's students. Such activities as movies, dances, receptions, and parties are planned so the student can achieve maximum enjoyment. The School Calendar lists all approved social activities. The Dean of Women coordinates the activities on campus. Every student has the chance to participate in a leisure time activity of his or her choice.

STUDENT ORGANIZATIONS

The student organizations, societies and clubs form an intrinsic part of the program of Eastern Kentucky University that fulfills academic, social and religious functions. The student organizations at Eastern offer varied activities to encompass the interests of all students.

Honorary Societies: Collegiate Pentacle, Cwens, Kappa Iota Epsilon, and Omicron Alpha Kappa.

Departmental Organizations: Accounting Club, Agriculture Club, Alpha Alpha Psi of Kappa Pi, Alpha Psi Omega, Association for Childhood Education, Association of United States Army, Behaviorial Science Symposium, Biology Club, Caduceus Club, Canterbury Club, Chemistry Club, Delta Sigma Rho-Tau Kappa Alpha, Drum and Sandal, Eastern Little Theater, Home Economics Club, Industrial Arts Club, Kappa Delta Pi, Kappa Kappa Sigma, Music Educators National Council, Pershing Rifles, Physical Education Majors and Minors, Physics Club, Pi Omega Pi, Polity Society, Polymathologists, Scabbard and Blade, Sigma Tau Pi, Student National Education Association, Women's Recreation Association, and World Affairs Club.

The University band, choir, and orchestra have programs, on and off campus, during the school year.

Religious Organizations: Baptist Student Union, Christian Science College Organization, Christian Student Fellowship, Church of Christ, Episcopal Canterbury Club, Newman Club, Pi Tau Chi, Wesley Foundation, Westminster Fellowship, YMCA, and YWCA.

Class Organizations: The Freshman, Sophomore, Junior, and Senior Classes each have organizations for the purpose of improving student life at Eastern.

Activity Organizations: Kyma Club, Photo Club, Varsity E Club, Young Democrats Club, and Young Republicans Club.

Service Organizations: Appalachian Volunteers, Brockton Organization, Circle K International, 4-H In-Service Club, Kappa Delta Tau, Men's Inter-Dorm Council, Sigma Chi Delta, Student Council, and Women's Inter-Dorm Council.

County and Regional Clubs: Twenty county and regional clubs are now organized on the campus. These organizations promote social events, encourage good academic achievement, and serve as recruiting agencies.

Other Student Organizations: Alpha Zeta Kappa, Collegiate Council of United Nations, and Veterans Club.

STUDENT PUBLICATIONS

THE EASTERN PROGRESS, weekly student newspaper, is the official student publication of the University, and all students are encouraged to take advantage of the journalism training offered by the Progress organization.

THE MILESTONE is the University yearbook. Published annually, this publication contains photographic and statistical records of events of the University year in an attractive manner. The book is distributed during the last two weeks of the spring semester.

Both the PROGRESS and The MILESTONE have received numerous national awards in recent years and are ranked annually among the top student publications in the nation.

BELLES LETTRES is a magazine of student writing edited and published by the Canterbury Club, an organization of English majors and minors who meet monthly to encourage interest in literary activity. The magazine accepts poems, one-act plays, and short stories from any student. It is issued each year near the end of the spring semester.

CULTURAL ACTIVITIES

Every effort is made at Eastern to surround the students with cultural advantages. The programs presented are planned as part of the students' education and much time and effort is put forth to provide programs that will be of benefit to students.

Assemblies are held regularly and special assemblies are held when the occasion warrants. While programs at these assemblies are designed primarily for the students and faculty, visitors to the campus are welcome to attend. Programs planned for these assembly periods include appearances by nationally recognized lecturers and artists. Programs are provided on other occasions by lecturers or musical groups which have relationship to the University. Many fine programs are furnished by the Music Department of the University. Important University matters are officially presented to the student body by the President.

Freshmen are required to attend assembly as a part of their orientation course.

Concert Series are presented at the University in cooperation with the Community Concert Association. Students are admitted to these excellent programs without charge, but they must present identification cards for admission. These programs feature some of the outstanding individuals and groups in the nation.

Art Exhibits, arranged by the Art Department, are on continuous exhibition in the Art Gallery, Cammack Building. Every effort is made to include in the exhibits the works of major artists, past and present, from across America and around the world. Also included are the works of art students, art majors, and faculty. In addition, special exhibits are sometimes arranged for showing in the Student Union Building.

Church Affiliation is recognized as an important factor in the life of any student. Eastern is a state-supported institution and is, therefore, non-denominational. The University has a basic objective in helping to develop ethical character among all students. There is close cooperation between the institution and several fine churches in Richmond. Students are encouraged to attend church services in town. Eastern makes spaces available for several student church organizations to meet on the campus.

Presently, two downtown churches have built student centers adjoining the campus. Other student centers will be built in the near future on sites which have already been purchased.

Plays presented by Eastern Little Theatre are a significant contribution to Eastern's cultural life. Three major productions each year, along with studio productions, and a drama program in the summer, provide numerous opportunities in acting, directing, and technical theatre. Participation in every aspect of the theatre program is open to all students.

In conjunction with the theatre program, there is a chapter of Alpha Psi Omega, National Honorary Dramatics Fraternity, which gives recognition to students of outstanding acting and technical ability.

Eastern Little Theatre is affiliated with the following professional dramatics and speech organizations: American National Theatre and Academy, American Educational Theatre Association, Speech Association of America, United States Institute of Theatre Technology, South Eastern Theatre Conference, Southern Speech Association, Kentucky Speech Association, and the Kentucky Council of Performing Arts.

STUDENT AWARDS

The Delta Alpha Chapter of Kappa Delta Pi annually presents two cash awards to the outstanding sophomore man and woman with the highest scholastic standing who plan to enter the teaching profession.

The Gladys Perry Tyng Award for excellence in elementary education is presented annually by the College of Education to a senior man and woman. The certificates of award are given in honor of Mrs. Tyng, who was associated with the elementary education program at Eastern as professor of education from 1920 to 1961.

The Charles F. Weaver Fund is a fund of $1,000.00 established by the late Charles F. Weaver, long-time member of the Board of Regents, to encourage proficiency in oratory and home economics. The income from the fund is used to provide prizes to be awarded annually to the male student who excels in oratory and to the female student who has made the greatest advance in the field of home economics. The recipients are selected by a faculty committee.

The W. L. Keene Award for Oratory was established by Eastern in 1964. The award is given to the woman student who excels in oratory. The award is comparable to the Weaver Oratorical Award for men. Any woman student at Eastern may enter the oratorical contest. The award was named in honor of W. L. Keene, professor of English at Eastern.

The Roy B. Clark Award is made possible by the will of the late Roy B. Clark, who was a teacher of English and head of the English department for many years. Dr. Clark left a $1,000 bequest to the University. The income from this money is to be awarded annually to the student who writes the best prose fiction published in *Belles Lettres*. The recipient will be selected annually by a faculty committee.

The Anna D. Gill Award is a fund established in memory of Miss Anna D. Gill, long-time faculty member of the College of Business. The income from this fund will be awarded annually to the outstanding senior business student.

A Student Service Award is presented annually by members of the Young Men's and Young Women's Christian Association to that member of the graduating class who, during his or her four years at Eastern, has given the greatest measure of service to fellow students.

The Yeager, Ford & Warren Award is for the purpose of stimulating an interest in the study of accounting and related subjects and encouraging the entrance of young men in the field of professional accounting. The $100.00 award is given at the end of the junior year to the student selected by the College of Business as most likely to succeed in the practice of public accounting.

PLACEMENT OFFICE

The Placement Office is maintained by the university and is a free service to assist students and alumni in obtaining positions in schools, business, and industry. Its concept is that it only helps job candidates to meet employers; it does not guarantee a job for the candidate.

Each year, schools, industry, business, and government agencies come to this office searching for graduates with specific background, experience, and ability to fill their positions and vacancies.

The Placement Office provides up-to-date job listings in numerous fields. It offers the applicant opportunities to interview with numerous prospective employers.

The Placement Office prepares and distributes bulletins to those who have filed a request. The bulletins list all known employment opportunities supplied by employers by letter, telephone, telegraph, or through their own placement bulletins.

Students receive the information via campus bulletin boards, department heads, and the Eastern Progress, the weekly student newspaper. Alumni receive the listings by mail and through the Progress, which they receive every two weeks.

THE ALUMNI ASSOCIATION

The Alumni Association of Eastern has as its purpose to promote fellowship among the graduates and to stimulate mutual interest and concern between the University and the Alumni. Eastern now has nearly 15,000 graduates. Many of these men and women hold more than one degree from the University. All Eastern graduates are members of the Eastern Alumni Association, "with all the rights and privileges appertaining thereto." All former students who have as much as a semester's work at Eastern, former faculty and staff members, are eligible for associate membership. The Alumni Association encourages all alumni to make an annual gift to the Alumni Fund each year. The minimum gift is $3.00, which serves as the "dues" for active membership in the Association. This is used by the Association's Alumni Office to help defray operating expenses. The remainder of any contribution will be used for the specific purpose designated by the contributor. Annual active membership is obtained by making an annual contribution of at least $3.00, or $5.00 for a joint membership husband and wife). Life memberships are $75.00 for single and $100.00 for joint memberships.

The Alumni Association sponsors Homecoming in the fall, KEA breakfast in the spring, and Alumni Day at commencement time. The latter features an Alumni Dinner honoring the 15, 25, 40 and 50 year classes, and the presentation of an Outstanding Alumnus Award. In addition, active Alumni Chapters at Louisville, Greater Cincinnati, Ashland-Huntington-Ironton (Tri-State) area, Pulaski County, Floyd County, Pike County, Perry County, Harlan County, Breathitt County, Fayette County, McCreary County, Dayton, Ohio, Washington, D.C., and two in Florida, have numerous meetings throughout the year open to all alumni and former students in the area. Many more Eastern Alumni Chapters are expected to be installed in the future.

The Eastern Alumni Association is a member of the American Alumni Council and the Joint Alumni Council of Kentucky, an organization made up of the alumni of the six state-supported institutions: Eastern Kentucky University, Morehead State University, Murray State University, Western Kentucky University, University of Kentucky and Kentucky State College.

The Eastern Alumnus, official magazine of the Alumni Association, is published each fall and spring by the Association for its members. Subscription is included in the membership dues.

The Alumni Office is conveniently located in the Administration Building where alumni and students may get bulletins and information. This is a good place for former students to find the addresses of their colleagues. Graduates, former students and faculty members are always welcome at the Alumni Office.

PART 3

GENERAL ACADEMIC INFORMATION

EASTERN KENTUCKY UNIVERSITY
FOUNDED 1906
RICHMOND

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Student Programs and Regulations 42

ADMISSION TO THE UNIVERSITY

I. **Methods of Admission.**—Candidates for admission to Eastern may be approved in any of the following ways:

1. **High School Graduation.**
   - A. Students who graduate from an accredited high school in Kentucky may be admitted to the freshman class on the basis of an official transcript and a recommendation from the principal. The distribution of credits should include two majors and a minor. A minimum of three units is required for a major and two units is a minor. One major must be in English. Not more than four units will be accepted in vocational courses.

2. **By Special Approval.**
   - A. Students who have one unit less than the number required for high school graduation, with superior grades, may be admitted provided the high school principal recommends that the student is qualified to do college work.
   - B. Veterans who have a minimum of twelve units of high school work and have successfully passed the G.E.D. tests may be admitted provided their test at Eastern shows that they rank as high as the average freshman entering college.
   - C. Persons over 21 years of age who wish to pursue courses as special students without reference to graduation may be granted the privilege if they have adequate preparation for the courses desired.

3. **By Advanced Standing.**
   - A. Students who have attended other colleges or universities are admitted to the University upon presentation and approval of credits from accredited institutions. Applicants transferring from other colleges and universities should present their applications at least ten days prior to the day of registration for the semester or summer term in which they plan to attend so that proper evaluation and acceptance can be made.
   - B. A maximum of 67 semester hours of credit will be accepted from accredited junior colleges.

II. **Applications for Admission.**—Applications for Admission to the Eastern Kentucky University cannot be unconditionally approved until transcripts of credits are filed in the Admissions Office. As soon as possible after an Application for Admission and a Transcript of Credits are received, the candidate will be notified whether or not he is accepted.

It is the responsibility of the applicant to have the following items sent to the Admissions Office prior to the opening date of a term:

1. An application for admission, properly filled out by the applicant, should be made upon a regulation blank furnished by the Dean of Admissions.
2. A transcript of the secondary school credit, issued after graduation, should be mailed directly by the principal to the Dean of Admissions.
3. An official transcript of any college or university credits and a statement of honorable dismissal, regardless of whether or not the student received credit for the work, should be mailed directly to: The Dean of Admissions, Eastern Kentucky University, Richmond, Kentucky 40475.

STUDENT PROGRAMS AND REGULATIONS

Eastern Kentucky University operates on the semester plan. The regular academic year is divided into two semesters of eighteen weeks each. The summer term, which is an integral part of the program, is eight weeks in length.

Classification of Students.—Students shall be classified as indicated below upon the completion of the respective number of hours, provided that the student has removed all entrance conditions:

Freshman—Entrance requirements
Sophomore—30 semester hours
Junior—60 semester hours
Senior—90 semester hours
Graduate—Baccalaureate degree

How Courses Are Numbered.—Courses are numbered according to the following plan:

Courses numbered 100 to 199 are primarily for freshmen.
Courses numbered 200 to 299 are primarily for sophomores.
Courses numbered 300 to 399 are primarily for juniors.
Courses numbered 400 to 499 are primarily for seniors.
Courses numbered 500 to 599 are for senior and graduate students.
Courses numbered 600 to 699 are for graduate students only.

Grading System.—Grades are indicated by letters, to each of which is given a certain value in "grade points". The following is the interpretation placed upon the grading system:

Grade	Meaning	Grade Points Per Semester Hour
A	Excellent	4
B	Good	3
C	Average	2
D	Poor	1
F	Failure	0
I	Incomplete	0

The grades, A, B, C, D, and F cannot be changed by the instructor. A grade of "D" gives credit toward a certificate or a degree, if with such credits the student's standing is 2 or more. A grade of "I" shall be assigned only upon condition the student has been unable to complete the course on time because of unavoidable conditions. A grade of "I" must be made complete within one month after the student re-enters the Institution. All grades of "I" automatically become "F" if not completed at the end of a year.

1. The grade which is counted in a course that has been repeated is the last grade awarded at Eastern regardless of whether it is higher or lower.
2. The credits attempted and quality points earned will be counted for each taking of a course, but credits earned will be counted only for the last taking.
3. A student may not enroll in the same course for a fourth time without permission of his academic dean.
4. The Registrar may not accept on a transcript credit for a course that has been taken more than three times.

For example if a student takes English 211 and makes a "D" and then repeats the course and makes an "A" the quality points, credit, and point standing would be as follows:

	Grade Received	Hours attempted at Eastern	Hours Earned	Quality Points
English 211	D	3	3	3
English 211	A	3	3	12
		6	3	15

The student would have 3 hours credit with a point standing of 2.50.

A student's point average is obtained by dividing the total number of points earned by the total number of semester hours attempted. Courses in which the marks are "CR", "W", or "WP" are recorded but are not figured in computing the point average. In order for a student to fulfill the requirements for a certificate or a degree, he must offer a number of "grade points" at least twice as great as the number of semester hours attempted.

Student Load.—The normal load for a semester for undergraduate students is eighteen semester hours. The minimum load to be classed as a full-time student is twelve semester hours. Students who have established superior records at the institution may be permitted to enroll for additional hours provided the approval of the Dean of the College in which the student is majoring is secured before the time of registration. The maximum load, however, shall not exceed twenty-one hours.

Correspondence work may be taken while in residence only on condition that it is counted as a part of the load. The combined load of correspondence and residence work cannot exceed the amount the student may take in residence. This regulation applies regardless of the institution with which the student does correspondence work.

Scholarship.—Any freshman or sophomore student failing to make an average standing of 1.6 for the semester will be placed on probation for the next semester for which he enrolls. If during the probation period he fails to make an average standing of at least 1.6, he may be dropped from the University. A student who is dropped may be considered for re-admission after a lapse of one semester by applying in writing to the Dean of Admissions for consideration by the Admissions Committee.

Upon completion of 60 or more semester hours of work with an average grade of "C", the student may register as a junior. Any junior or senior student failing to maintain an average standing of 2.00 will be placed on probation for the next semester for which he enrolls. If during the probation period he fails to secure a cumulative average standing of 2.00, he may be dropped from the University.

Class Schedule Changes.—Necessary changes in courses must be made within ten days after registration for the regular semester or five days in the summer term, and must be approved by the Dean of the College in which the student is majoring. Approval to drop a course without a grade cannot be given after thirty calendar days (15 calendar days for the summer session) following registration, unless justified by conditions beyond the student's control; such as, serious personal illness, obligations relative to military service, or serious financial or family obligation necessitating withdrawal from the University. It is to be understood that any course dropped unofficially will result in a failing grade.

One month prior to the close of a semester no dropping of classes will be permitted, either with or without standing.

Late Registration.—No one will be permitted to register for regular day classes after the second week of a semester or after the first week of a summer session, unless approved by the Vice-President for Academic Affairs and the Dean of Admissions.

Withdrawal from the University.—Students who find it necessary to leave the university under any circumstances must visit the Office of the Dean of Students and secure an Official Withdrawal Card. This card must be carried by the student to several campus offices, where records must be cleared. Unless the student follows this procedure, the permanent records in the Registrar's Office are incomplete. Therefore, students receive grades of "F" for the semester's work and will not be eligible for readmission. Students failing to complete a Withdrawal Card within fifteen days will receive an unofficial withdrawal.

Class Attendance.—Faculty members will have full responsibility for dealing with student absences from class, within the following limitations:

1. Regular class attendance is required of all students.
2. Students absenting themselves from class more than 20% of the scheduled class meetings, are not eligible for credit, and a failing grade is mandatory. (A waiver of this policy is possible only through a petition initiated by the student, approved by the instructor, approved by the departmental chairman, and approved by the Vice-President for Academic Affairs.)

Official Schedule Changes.—The University reserves the right to cancel a course when the registration is not sufficient to warrant its continuance, to divide classes if the enrollment is too large for efficient instruction, and to change instructors when necessary. Additional courses will be organized if the demand is sufficient.

General Requirements for the Baccalaureate Degrees.—The degree of Bachelor of Arts or Bachelor of Science is conferred upon those students who have completed an approved four-year curriculum. The minimum amount of credit required for the bachelor's degree is one hundred and twenty-eight semester hours of college credit. Not more than thirty-eight semester hours of the work required for a degree may be earned by extension and/or correspondence. A candidate for a degree must have been in residence a minimum of 36 weeks and must have earned a minimum of 32 hours while in residence. At least 30 hours of the last 36 required for a degree must be earned in residence at Eastern.

The curriculum which the student expects to follow for the completion of the requirements for the bachelor's degree must be filed in the office of the Dean of the College in which the student is a major not later than the end of the junior year. The curriculum must be approved by the Dean of the College in which the student is majoring and by the major professor. A student's planned curriculum cannot be changed after fifteen days following the semester in which a student makes application for graduation.

In order to be eligible to graduate a student should have a good proportion of his work in the upper division of the college. At least 43 semester hours of his work must be in courses numbered in the three and four hundreds.

Majors and Minors

1. A major shall require a minimum of 24 semester hours, except a major in English shall require a minimum of 30 semester hours, and a major in Speech and Drama shall require a minimum of 30 semester hours.
2. A minor shall require a minimum of 18 semester hours.

3. Each curriculum shall require
    1. an area of concentration, or
    2. two majors, or
    3. one major and two minors, or
    4. one major and one minor when credit in both is 48 semester hours (54 when English is included as a major). A major must have a minimum of 30 hours.

Candidacy for Graduation.—A student planning to graduate in June should file application for a degree before the end of the first semester. Students who are planning to graduate in August should file application not later than the beginning of the second semester. Applications should be filed in the Admissions Office. Fees for graduation are to be paid at the Business Office and receipts presented to the Admissions Office.

Commencement.—Commencements are held at the close of the spring semester and at the end of the summer session. Students who are candidates for degrees are required to participate in the commencement exercises unless excused by the President. A student who completes the requirements for a degree during the fall semester will receive the degree at the following spring commencement.

Commencement Honors.—Students are graduated "With High Distinction" who attain a standing of 3.6 or higher for a least three years of residence work.

Students are graduated "With Distinction" who attain a standing of 3.4 up to 3.6 for at least three years of residence work.

A student who does only two years of work at Eastern may receive the appropriate commencement honors if he attains a standing of .2 greater than the above.

PART 4

CURRICULA

EASTERN KENTUCKY UNIVERSITY
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FOUNDED 1906
RICHMOND

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CURRICULA

GENERAL EDUCATION REQUIREMENTS

AREA I. Communications—the following six semester hours are required:

1. General Studies 101*—3 semester hours
2. General Studies 102—3 semester hours

* General Studies 101 may be waived if entrance test score is 80 percentile or over. In such cases, three hours of approved English must be substituted as a graduation requirement.

AREA II. Humanities—twelve semester hours

A. The following six semester hours are required:
  1. English 209 or 211—3 semester hours
  2. English 210 or 212—3 semester hours

B. Six semester hours from the following as specified by departments:
  1. Art 200—3 semester hours
  2. Art 390—3 semester hours
  3. Art 391—3 semester hours
  4. Art 392—3 semester hours
  5. Drama 100—3 semester hours
  6. Drama 300—3 semester hours
  7. Foreign Language—6 semester hours
  8. History 498—3 semester hours
  9. History 499—3 semester hours
  10. Music 271—3 semester hours
  11. Music 371—3 semester hours
  12. Music 372—3 semester hours

AREA III. Social Sciences—twelve semester hours

A. The following six semester hours are required:
  1. General Studies 246—3 semester hours
  2. General Studies 247—3 semester hours

B. Six semester hours from the following as specified by departments:
  1. One course from the following group:
     General Studies 140 or 142; Anthropology 110; Economics 230; Geography 101, 102, or 199; Political Science 100.
  2. One course from the following group:
     General Studies 144 or 248; Economics 231; Geography 330, 471, or 477; Political Science 101 or 300.

AREA IV. **Mathematics and Natural Science—twelve semester hours from the following as specified by departments:

1. Biology: General Studies 161 or 162; Biology 111, 121, 141, 401, or 402.
2. Chemistry: General Studies 170; Chemistry 111 or 112.
3. Geology: Geology 108, 200, or 399.
4. Mathematics: Mathematics 107, 108, 113, or 321.
5. Physics: General Studies 176; Physics 131, 132, 201, or 202.
6. Nonspecialized Science: Science 310.

** A student must have 3 semester hours in biological science and 3 semester hours in physical science. At least 6 of the 12 hours must afford the student laboratory experience.

AREA V. Health and Physical Education—the following 5 semester hours are required:

1. General Studies 180—1 semester hour
2. General Studies 181—1 semester hour
3. General Studies 281—3 semester hours

DEGREES

The Associate of Arts Degree is conferred upon students who finish the two-year curricula in Industrial Technology, Executive Secretarial Program, Data Processing, Nursing, Recreation, Agriculture, or Law Enforcement.

The Bachelor of Arts Degree is conferred upon students who major in anthropology, art, English, French, geography, geography and geology, German, history, Latin, music, political science, Russian, social science, sociology, Spanish, speech, or speech and drama.

The Bachelor of Science Degree is conferred upon students who major in biology, business education, chemistry, earth science, economics, elementary education, health and physical education, home economics, industrial education, industrial technology, law enforcement, mathematics, physics, psychology or science.

The Bachelor of Music, Bachelor of Music Education and Bachelor of Business Administration are conferred upon students who complete the curricula given elsewhere.

The Master of Arts Degree in Education is conferred upon students who complete the graduate program designed to meet the needs of teachers, supervisors, guidance counselors, educational administrators, etc.

The Master of Arts Degree is conferred on students who complete the graduate program in History or English.

TEACHER EDUCATION CURRICULA

The curricula offered by the University have been planned and developed to meet the needs of students who desire to become teachers, principals, supervisors, superintendents, attendance officers in the public schools, and guidance counselors. Curricula are offered for the preparation of elementary teachers; for teachers of the special subjects of art, business, health and physical education, industrial arts, music, and vocational home economics; and for the preparation of high school teachers in fields of biology, chemistry, earth science, English, French, geography, geography and geology, German, history, Latin, mathematics, physics, political science, Russian, social science, sociology, Spanish, speech, and speech and drama. These curricula lead to the baccalaureate degrees and the Master of Arts degree with right of certification.

PROVISIONAL ELEMENTARY CERTIFICATE

The Provisional Elementary Certificate valid for ten years shall be issued to a person who completes a baccalaureate degree and meets the requirements for teaching in the elementary schools. The Provisional Elementary Certificate is valid on a continuing basis provided the certificate is registered at the end of each ten-year period in the Division of Teacher Education and Certification of the State Department of Education on evidence of three years of teaching experience or twelve semester hours of additional graduate work.

The curriculum for the preparation of elementary teachers is given in the material under Education found subsequently in this catalog.

STANDARD ELEMENTARY CERTIFICATE

The Standard Elementary Certificate valid for ten years shall be issued to a person who meets the requirements of law and general regulations of the State Board of Education and files a transcript of credits showing the completion of the four-year curriculum for the training of elementary teachers as prescribed by the Council on Public Higher Education, and who, in addition thereto, completes the requirements for a Master's degree in a standard graduate school, as prescribed.

The curriculum, leading to the Standard Elementary Certificate shall be based upon the following:

a. Completion of the requirements for the Master's degree which shall be based upon at least 30 semester hours of graduate work. For students who write a thesis, a minimum of 24 semester hours shall be required.

b. At least 15 of the 30 hours required for the Master's degree must be in courses open only to graduate students. Nine of the 15 hours must be in professional education courses.

c. At least nine semester hours of the required work shall be in professional education courses designed to develop the recommended competencies.

d. At least 12 semester hours of the total hours required for the degree shall be non-professional subject matter courses. These courses must be selected from the fields of study required in general education and/or in subject matter courses used in partial fulfillment of the four-year elementary curriculum for elementary certification.

The Standard Elementary Certificate may be extended for life upon three years of successful teaching experience during the life of the certificate. If the holder fails to meet the requirements for life extension before the certificate expires, the certificate may be registered at the end of each ten-year period in the Division of Teacher Education and Certification of the State Department of Education on basis of four semester hours of graduate work for each of the three years the teacher fails to teach.

PROVISIONAL HIGH SCHOOL CERTIFICATE

The Provisional High School Certificate valid for ten years shall be issued to a person who completes a baccalaureate degree for the training of high school teachers. The Provisional High School Certificate is valid on a continuing basis provided that the certificate is registered at the end of each ten-year period in the Division of Teacher Education and Certification of the State Department of Education on evidence of three years of teaching experience or 12 semester hours of additional graduate work.

Courses of instruction leading to the Provisional High School Certificate are to be found under the material of the various academic departments.

STANDARD HIGH SCHOOL CERTIFICATE

The Standard High School Certificate valid for ten years shall be issued to a person who meets the requirements of law and general regulations of the State Board of Education and files a transcript of credits showing the completion of the four-year curriculum for the training of high school teachers as prescribed by the Council on Public Higher Education, and who, in addition thereto, completes the requirements for a Master's degree in a standard graduate school as prescribed.

The curriculum leading to the Standard Secondary Certificate shall be based upon the following:

a. Completion of the requirements for the Master's degree which shall be based upon at least 30 semester hours of graduate work. For students who write a thesis, a minimum of 24 semester hours shall be required.

b. At least 15 of the 30 hours required for the Master's degree must be in courses open only to graduate students. Nine of the 15 hours must be in professional education courses.

c. At least nine semester hours of the required work shall be in professional education courses designed to develop the recommended competencies.

d. At least 12 of the 30 semester hours required for the degree shall be non-professional subject matter courses. These courses must be selected from the general education courses and from the list of subjects in which majors and/or minors may be completed on the undergraduate level and used in partial fulfillment of requirements for the bachelor's degree and the Provisional High School Certificate.

The Standard High School Certificate may be extended for life upon three years' successful teaching experience during the life of the certificate. If the holder fails to meet the requirements for life extension before the certificate expires, the certificate may be registered at the end of each ten-year period in the Division of Teacher Education and Certification of the State Department of Education on basis of four semester hours of graduate work for each of the three years the teacher fails to teach.

CURRICULA FOR SCHOOL LEADERS

Eastern offers curricula leading to the Provisional Certificate for School Leaders (principals, supervisors). For each of the Provisional Certificates the applicant must have completed a curriculum leading to the Master's degree. Three years of successful teaching experience or the equivalent are also required.

The University also offers a sixth-year program leading to the Standard Certificate for School Leaders. This certificate includes Principalship, Supervision and Superintendency.

CURRICULUM FOR GUIDANCE COUNSELORS

Eastern offers a curriculum leading to the Provisional Certificate for Guidance Counselor. The Master's degree is required for this certificate. The Provisional Certificate for Guidance Counselor shall be valid for a period of ten years and renewable each ten-year period on the basis of three years of experience as a guidance counselor. The applicant must have had three years of successful teaching experience or two years of teaching experience and one year of employment in fields other than teaching.

The University also offers a curriculum leading to the Standard Certificate for Guidance Counselor. This certificate is based on 30 additional hours of graduate work beyond the Master's degree. The Standard Certificate is a "continuing" certificate.

DEGREES WITHOUT RIGHT OF CERTIFICATION

(Non-professional)

It is possible for a student to secure a degree without the right of teaching in most of Eastern's academic departments. The requirements for such degrees are fully set forth in the description of the various academic departments found elsewhere in this catalog.

PRE-PROFESSIONAL CURRICULA

CURRICULUM PREPARATORY FOR MEDICINE AND DENTISTRY

Eastern offers a preparatory course for the study of medicine which, with modifications to meet special variations in requirements, complies with the general entrance requirements of medical schools. The curriculum outlined below also includes institutional requirements for graduation with a Bachelor of Science degree.

It is recommended that a student complete the four-year course of study at Eastern before transferring to a medical school. This gives the student obvious advantages in medical school and in later work. Furthermore, some medical schools require a four-year course for admission.

Students may elect to complete the outlined three years at Eastern and then use the first year of work from a Class A medical school to complete the requirements for the Bachelor of Science degree. Combination courses are subject to approval by Eastern and by the particular medical school.

Students who desire may take only two years for a premedical course. Many medical schools will not accept students with only two years of premedical training and Eastern does not recommend such a limited course.

PRE-MEDICAL CURRICULUM

First Year

First Semester	Hours	Second Semester	Hours
Biology 111	4	Biology 141	4
Chemistry 111	4	Chemistry 112	5
General Studies 101	3	General Studies 102	3
General Studies 180	1	General Studies 181	1
Mathematics 107 or 108	2-3	Mathematics 113	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
	16-17		18

Second Year

Biology 342	5	Biology 303	4
Chemistry 211	5	Chemistry 212	5
General Studies 246	3	Economics 230	3
General Studies 281	3	General Studies 247	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
	18		17

Third Year

Biology 325	3	Biology 445 or 446	2-3
Chemistry 310	5	Chemistry 312	5
English 211	3	English 212	3
Foreign Language	3	Foreign Language	3
Geography 330 or 471	3	*Elective	3
	17		16-17

Fourth Year

Biology 347	4	Biology 481	4
Physics 131	5	Chemistry 413	5
*Electives	7	Physics 132	5
		*Electives	2
	16		16

* Electives (such as History 498, 499, Mathematics 232, 251)

PRE-DENTAL CURRICULUM

A student who is planning to enter dental school should follow the curriculum outlined for pre-medical work.

MEDICAL TECHNOLOGY

Students who are interested in becoming medical technicians may secure many of the required college courses at Eastern. The requirements for this type of work vary and the student should elect courses to meet particular requirements.

MEDICAL TECHNOLOGY CURRICULUM

First Year

First Semester	Hours	Second Semester	Hours
Biology 111	4	Biology 141	4
Chemistry 111	4	Chemistry 112	5
General Studies 101	3	General Studies 102	3
General Studies 140	3	General Studies 144	3
General Studies 180	1	General Studies 181	1
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
	17		18

Second Year

Biology 342	5	Biology 303	4
Chemistry 211	5	Chemistry 212	5
General Studies 246	3	General Studies 247	3
Mathematics 107	3	General Studies 281	3
Military Science 201 (Men) or Elective (Women)	2	Mathematics 113	3
		Military Science 202 (Men) or Elective (Women)	2
	18		19

Third Year

Biology 445	2	Biology 446	3
Chemistry 310	5	Biology 481	4
English 209 or 211	3	English 211 or 212	3
Physics 131	5	Physics 132	5
*Humanities (elective)	3	*Humanities (elective)	3
	18		18

Fourth Year

Student must transfer back to Eastern sufficient course work from an accredited School of Medical Technology to complete the fourth year for a B.S. degree from Eastern.

* Humanities to be selected from: Art 200, 390, 391; 392; Drama 100, 300, Foreign Language—6 hours; History 498, 499; or Music 271, 371, 372.

PRE-OPTOMETRY

Students who plan to go into the field of optometry may elect to take two years of Pre-Optometry at Eastern and then transfer these credits to an optometry school A minimum of three years work is required in the optometry school for the Doctor of Optometry (O.D.). Some optometry schools require four years for the O.D. and several universities have graduate programs leading to the M.S. and Ph.D. degrees in addition to their programs leading to the O.D.

Requirements for admission to optometry schools vary widely. The student wishing to enter a Pre-Optometry program should immediately secure a bulletin from the optometry school of his choice so that he may intelligently prepare a curriculum. The student must prepare himself to meet the entrance requirements of the optometry school of his choice. Entrance requirements for the schools of optometry vary widely and no single curriculum can meet them all. Courses required for Pre-Optometry generally include 2 years of English; at least 1 year of mathematics; 1 year each of Physics, Chemistry, and Biology; and 1 year of a Social Science.

A limited number of Kentucky residents may be accepted for a scholarship at the School of Optometry, University of Houston. For those accepted, the Commonwealth of Kentucky will pay to the University of Houston the non-resident differential in an amount not to exceed $375 per academic year for those students who exhibit satisfactory progress toward completion of the prescribed four-year curriculum at the University of Houston.

PRE-PHARMACY CURRICULUM

First Year

First Semester	**Hours**	**Second Semester**	**Hours**
Biology 141	4	Biology 131	3
Chemistry 111	4	Chemistry 112	5
General Studies 101	3	General Studies 102	3
General Studies 180	1	General Studies 181	1
Mathematics 107	3	Mathematics 113	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
	17		17

Second Year

Chemistry 212	5	Biology 303	4
General Studies 246	3	Economics 230	3
General Studies 281	3	General Studies 247	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
Physics 131	5	Physics 132	5
	18		17

PRE-ENGINEERING CURRICULUM

A student may take one or two years of fundamental work at Eastern and then transfer to an engineering college without appreciable loss of credits if he chooses his courses wisely. The pre-professional requirements of a particular college of engineering should be chosen from Mathematics, Chemistry, Physics, and other basic subjects. Every Pre-Engineering student will receive help, upon request, from an advisor.

First Year

First Semester	**Hours**	**Second Semester**	**Hours**
Chemistry 111	4	Chemistry 112	4
General Studies 101	3	General Studies 102	3
General Studies 180	1	General Studies 181	1
Mathematics 107	3	Mathematics 108	2
Mathematics 113	3	Mathematics 232	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
		Physics 107	1
	16		16

Second Year

General Studies 246	3	General Studies 247	3
Mathematics 251	5	General Studies 281	3
Military Science 201	2	Mathematics 352	3
Physics 201	5	Military Science 202	2
		Physics 202	5
	15		16

SOCIAL WORK

Students who plan to do graduate work in social work or who plan to enter a field of social work with public or private agencies should major in Sociology, taking courses on social work as their Sociology electives, and concentrate on Economics, Political Science, and Psychology in their minors. Opportunities for work are increasing in the areas of child welfare, juvenile institutions, penal institutions, State social agencies, Federal services, the American Red Cross, and in similar specialties.

PRE-VETERINARY MEDICINE

Since 1950, Kentucky students have had the opportunity of entering veterinary medical training at Auburn University, Auburn, Alabama, or at Tuskegee Institute, Tuskegee, Alabama. The State of Kentucky has made this possible through its participation in the Southern Regional Education program.

The State pays $1,500 per student per year through the Southern Regional Education Board to the institutions. Each year Auburn University holds twelve places and Tuskegee Institute holds two places for entering students from Kentucky. These students must meet admission requirements of the schools. If admitted, Kentucky students have the same status as Alabama students. They do not pay out-of-state tuition.

The minimum education requirement for admission to the School of Veterinary Medicine, Auburn University, is the satisfactory completion of two years of study in an approved accredited college or university. A total of 60 semester hours of college work must be completed with a grade point average of at least 2.75. In addition to the above, applicants are required to meet the military and physical training requirements in effect at the institution attended.

The two years of college work must include:

	Hours		Hours
General Studies 101, 102	6	Military Science 101, 102, 201, 202	8
American History 202 or 203	3	Biology 131, 141, 142, 325	14
Mathematics 107, 113	6	Physics 131, 132	10
Chemistry 111, 112, 310, 312	19	*Medical Vocabulary	3
Agriculture 125, 126, 221	10	General Studies 180, 181	2

Applicants who have completed the requirements for a B. S. degree in Agriculture with a scholastic average of at least 2.75 are qualified for admission.

In the selection of students for admission to the School of Veterinary Medicine the Committee on Admissions gives due con-

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* Medical Vocabulary is offered by correspondence from Auburn. Two semesters of modern foreign language may be substituted for this requirement.

sideration to the applicant's background, adaptability to the profession, age, scholastic record, and residence. Personal interviews and aptitude tests may be required.

PRE-LAW CURRICULUM

No fixed, comprehensive pre-law curriculum is usually prescribed in law schools. However, prospective law students should keep in mind that a broad, basic and liberal education will equip one to study law and also prepare him for a vital role in the community once he has acquired his professional training. Thus he should pursue a degree program in pre-law in which he will learn to think clearly, will form sound study habits, and will have an opportunity to master the methodology and knowledge of a particular field under the guidance of good instructors. Courses in accounting, economics, English, history, Latin or a modern foreign language, mathematics, the natural sciences, philosophy, political science, psychology, sociology and speech lend themselves to the breadth of background needed by a law student and a lawyer.

The importance of a sound background in use of the English language cannot be stressed too greatly. A fundamental knowledge of grammar, a good vocabulary, an ability to read rapidly with understanding, an ability to express one's thoughts in a clear and organized fashion, are all absolutely essential to success in the study of law. Any pre-law student who is deficient in English should take immediate steps to correct the situation by taking additional English courses, by seeking remedial help and by self-study. Otherwise he may be seriously handicapped in the study of law and may even jeopardize his admission to law school.

A pre-law student may either complete the degree requirements before applying for admission to a law college or may apply for admission to a law college upon the completion of three academic years of undergraduate work. Eastern has arrangements with a number of law colleges whereby the freshman year in the law college can be transferred to Eastern and applied on the bachelor's degree. By this plan a student may earn both the baccalaureate and law degrees in six academic years. He must meet the following requirements to receive a bachelor's degree from Eastern:

1. He must gain at least 100 semester hours at Eastern, with a standing of 2.3 or more, before transferring to a law school.
2. He must have met the general education course requirements.
3. He must have completed at least 21 semester hours in a major and 15 semester hours in a related minor.
4. He must have been officially registered at this institution at least one full year, thirty-six weeks, immediately preceding the completion of his requirements in this institution, and must have completed at least 36 semester hours in residence at this institution.

5. He must spend at least one academic year in a College of Law approved by the Association of American Law Schools.
6. He must secure sufficient hours in his law courses to bring his total up to 128 semester hours and must secure a standing of at least 2.0 or its equivalent in his law courses.

Pre-law students are advised to select an advisor from one of the following departments: Business; English and Foreign Languages; History, Anthropology and Sociology; Political Science.

PRE-FORESTRY CURRICULUM

Arrangements made through the Southern Regional Education Board provide for students who wish to prepare as professional foresters to do the first two years of their work at Eastern Kentucky University and complete their training in two years and one summer at North Carolina State College in Raleigh.

First Year

First Semester	Hours	Second Semester	Hours
Biology 131	3	Biology 132	3
Chemistry 111	4	Chemistry 112	5
General Studies 101	3	General Studies 102	3
Mathematics 107	3	Mathematics 113	3
Military Science 101	2	Military Science 102	2
General Studies 180	1	General Studies 181	1
	16		17

Second Year

Biology 141	4	Agriculture 215	4
Biology 336	2	Biology 335	2
Economics 230	3	General Studies 247	3
Physics 131	5	Physics 132	5
General Studies 246	3	Sociology 231	3
Military Science 201	2	Military Science 202	2
	19		19

OTHER PRE-PROFESSIONAL CURRICULA

The University affords courses for students who plan to do specialized work in nursing, library science, theology, and in other professional fields.

In addition to standard four-year pre-professional curricula, Eastern may approve specially arranged combined curricula. In these curricula, the student completes three years as outlined at Eastern to meet basic requirements and then transfers a year of successful work from a Grade A professional school in order to secure a B. S. or A. B. degree from Eastern Kentucky University. This plan may shorten by one year the time needed for obtaining both a baccalaureate and a professional degree.

ADMISSION TO THE TEACHER EDUCATION PROGRAM

Those who plan to work toward a teaching certificate, either secondary or elementary, must enroll in Education 202, Professional Orientation. This enrollment should be in the Sophomore year. During this course the application for the Teacher Education Program will be accomplished. Transfer students who have had a similar course prior to entrance to Eastern should enroll in Education 300, Issues and Trends in American Education. This must be done during the first semester of residence. The requirements for admission to the Teacher Education Program are (a) one semester of residence at Eastern, (b) 2.25 grade-point average in all his college work at Eastern, (c) satisfactory recommendations from four faculty members, one of which must be the instructor in Education 202, or Education 300.

When a student has been admitted to the Teacher Education Program, and not until then, he may enroll in the professional education sequence. No student will be enrolled in Education 315, Human Development and Psychology, or subsequent Education courses, without an admission card showing he has been admitted to the Teacher Education Program. If, after admission to the Teacher Education Program, a student is placed on either academic or social probation, his application will be reviewed.

SUPERVISED STUDENT TEACHING

Student Teaching is done in the campus laboratory school or in affiliated public schools. Students wanting to do Student Teaching must file an application twelve weeks prior to the term in which they are to do their Student Teaching.

Admission to Student Teaching

A student of senior standing may enroll in Student Teaching if he has satisfied the following requirements:

1. Has one semester of residence at Eastern and has been admitted to the teacher education program.
2. Has completed all prerequisites in professional education and his major teaching field. Elementary Education is classified as a major.
3. Has the recommendation of his major professors and minor professors.
4. Has a standing of 2.25 in
    a. Entire college program at Eastern
    b. Professional education courses
    c. Area of concentration or in his majors and minors.
5. Must meet the generally accepted standards of a professional person relative to health, art of communication, personality, and other characteristics of a good teacher.
6. The application for Student Teaching must be on file at least 12 weeks prior to the term in which Student Teaching is desired.
7. Must have on file a physical examination report.

Students taking Student Teaching are expected to follow the calendar of the school in which they are doing Student Teaching.

THE EXTENSION DIVISION
EXTENSION CLASS PROGRAM

Purposes and Objectives

Eastern Kentucky University strongly holds to the philosophy that there should be a close relationship with the homes and the schools of the state to the end that any citizen may feel free to call upon the University for any assistance which the institution may be able to render. The off-campus class program of Eastern is designed to serve students who are unable to enroll in residence or who find it more helpful to work in local groups on certain common problems. More specifically, off-campus class programs are designed to accomplish one or more of the following purposes:

1. To provide greater opportunity for teachers and prospective teachers to obtain credit in college-level courses.
2. To provide greater opportunities for those who want to increase their knowledge, while regularly employed, to obtain credit in college-level courses or to improve their efficiency and skills.
3. To assist communities to make effective use of the resources of the university in their efforts to improve their educational program of the schools.
4. To assist in acquainting the faculty of the various departments with the educational programs and needs facing the communities served by the university.

Off-Campus Courses

The university commits itself to provide credit and non-credit courses needed for the development of teachers now on the job by:

1. Offering credit and non-credit courses when requested by the local school authorities and provided the demand is sufficient to justify the university to offer such course or courses.
2. Cooperating with local school systems in organizing and conducting off-campus courses as needed.
3. Providing non-credit courses by the members of the faculty and staff to the extent that the resources of the university will permit.

Course and Credit Limitations

Off-campus credit courses offered by Eastern are of various types. To a large extent, the nature of off-campus courses is determined by the needs of the local community. All courses offered are approved by the Vice-President for Academic Affairs and the Department Head. Courses requiring laboratories or extended library service are not offered off-campus.

Effective September 1, 1965, a teacher employed on a full-time basis shall not be allowed to receive credit through off-campus courses and/or correspondence for more than a maximum of four semester hours each semester or eight semester hours during the regular school year of nine months.

Undergraduate students may apply a maximum of 32 semester hours by Extension and/or correspondence toward a degree or certification.

Graduate students may apply a maximum of six semester hours toward a M.A. degree or certification, and may also earn six hours beyond the M.A. degree.

Credit courses of short duration shall be conducted only during the summer term or intersession and shall be for a minimum of three weeks for a three-hour course meeting a minimum of three clock-hours five days per week.

Admission Requirements

Students will be admitted to off-campus credit courses who satisfy all prerequisites for these courses in exactly the same manner as is required of residence students.

Certain courses numbered 500-599 may be opened to both seniors and graduates, subject to approval of their advisors or Department Heads.

Credit for Graduate courses is limited to graduate students only.

Students may be permitted to audit an off-campus course without credit by paying the minimum fee required.

A minimum of 15 weekly classroom sessions for a three-semester hour course shall be required with a minimum time for each classroom session of 180 minutes. For a two-hour course there must be at least 10 weekly classroom sessions of 180 minutes each. (A classroom session is interpreted to mean where instructor and students are meeting in face-to-face instruction. Organizational meetings by the Director and students are not to be considered.)

The minimum charge for a semester hour for undergraduate work by extension shall be $10.00, and the minimum charge for graduate work shall be $12.00.

How to Proceed

Students interested in an off-campus class being offered in their locality may do one or more of the following things:

1. Write or call the Director of Extension, Eastern Kentucky University, Richmond, Kentucky, 40475. Telephone: Code Number 606—623-7155 or 7156.
2. Contact the office of your local Superintendent of Schools and make inquiry as to the local need for such a course.
3. Make a survey among your friends and associates as to the need and demand for an off-campus class.
4. Consult with your Supervisor and Principal as to whether or not the course or courses in which you are interested will be helpful in improving the educational standards of the local school program.

CORRESPONDENCE STUDY PROGRAM

Eastern Kentucky University, through its Department of Extension, offers a number of regular college and high school correspondence courses as a means of study open to anyone of maturity. While a correspondence course is not intended as a substitute for residence study, it can be made to serve effectively in the place of a course offered in class. For this reason the courses are offered for the purpose of meeting the needs of students out of school. They are especially helpful to the following groups:

1. Teachers who wish to obtain college credit which will count toward their certificates.
2. Those who wish to begin or continue work in college subjects for the purpose of securing a degree.
3. Those who want to increase their knowledge without regard to their previous training.
4. High school graduates who feel the need for further education in general or special lines but who do not wish to secure a degree.
5. High school non-graduates who wish to qualify for a high school diploma or who wish to meet college entrance requirements.

Location

The Correspondence and Extension Office is located in Room 214, Coates Administration Building on the main campus of Eastern Kentucky University. The telephone number is Area Code 606, 623-7155 or 7156.

Credit

Correspondence Study offers both college and high school courses for credit. To obtain credit in a course, the student is required to do the work as outlined in the syllabus and write, under supervision, the final examination. In general, the final grade will be determined on the basis of the final examination and the grades earned on the assignments submitted.

Credit for college courses is on the semester basis; credit for high school courses is on the ½ unit basis. Students may, however, enroll for a course on a non-credit basis if credit is not desired. Final examinations are not required of students pursuing non-credit courses.

A high school student may apply correspondence credit toward graduation provided it meets with the approval of the local school system and the high school principal who is to receive the credit. A student enrolled in high school, or one who expects to use credit earned by correspondence toward high school graduation, must have the approval of his principal.

Graduate Credit

Credit toward the Master's Degree at Eastern Kentucky University cannot be earned by correspondence study. Graduate students, however, may take correspondence courses and the credit earned can be applied toward overcoming undergraduate deficiencies and toward the major and/or minor fields.

Fees

A. Instruction fees, which do not include costs of textbooks and other reference materials, are governed by the following regulations:

1. All fees are payable in advance and are subject to change without advance notice to the student.
2. Instruction fees for college courses are based upon the number of semester hours of credit given for the course. The fee at present is $10.00 per semester hour for correspondence. For a two-semester hour course the fee is $20.00; for a three-semester hour course the fee is $30.00.
3. The instruction fee for high school courses is $20.00 for each one-half unit.

Time Allowed

The beginning date for a correspondence course coincides with the date of enrollment. A student may enroll for a course any time during the calendar year. The course must be completed one year from the date of enrollment unless there are extenuating circumstances beyond the control of the individual student. In such case, the Extended Services Committee may grant reinstatement. If the course is cancelled, the student will have to re-enroll by paying the full instruction fee before completing the course.

The minimum time in which a correspondence course may be completed is as follows:

a. Five weeks for a three-semester hour course.
b. Ten weeks for two three-semester hour courses.
c. Four weeks for a two-semester hour course.
d. Eight weeks for two two-semester hour courses.
e. Nine weeks for one three-semester hour course and one two-semester hour course.
f. A minimum of four weeks is allowed for one-half unit high school course or eight weeks for two high school courses.

Students who wish to apply correspondence credit toward graduation, certification, etc., **must** arrange to complete the work at least two weeks before credit is needed. This is particularly necessary during the **summer months** and Christmas vacations when faculty members are often off the campus.

Regular resident students who enroll for correspondence work to complete during the summer must complete their course before enrolling for residence in the fall. No correspondence course can be completed by a resident student without written permission from the Dean. A course is considered completed on the date of the final examination.

THE GRADUATE SCHOOL

PURPOSE

The Graduate School, in cooperation with the Colleges of Arts and Sciences, Business, Education, and Applied Arts and Technology, provides course offerings leading to the Master of Arts in Education degree, to Rank I certification for elementary and secondary teachers, and to the Master of Arts and Master of Science degrees in academic disciplines. The graduate work is planned to meet the needs of elementary and secondary teachers; to provide curricula for supervisors, principals, superintendents, attendance officers, guidance counselors, public school librarians and reading specialists; to prepare college level instructors (especially for junior colleges) and to provide a foundation for graduate work toward the doctoral degree. A major puropse of the school is to encourage scholarly research and publication.

TYPES OF STUDENTS

Graduate courses are open to: (1) students who enter and become candidates for the degree of Master of Arts in Education; (2) students who enter and become candidates for the degrees of Master of Arts or Master of Science in academic disciplines; and (3) students who wish to broaden their education without reference to a graduate degree.

The Master of Business Administration degree will be offered beginning with the Fall semester of 1967.

ADMISSION REQUIREMENTS

REQUIREMENTS FOR ADMISSION TO THE GRADUATE SCHOOL

1. A graduate of an accredited 4-year institution eligible to grant the Baccalaureate Degree.

2. An over-all undergraduate point standing of at least 2.4 (based on a 4.0). A standing of not less than 2.25 may be considered (with reduced load) provided the student's standing in his last year of undergraduate study was at least 2.5.

3. Complete personal and professional data, filed by the student in the Graduate Office. A transcript of all college and secondary school credits must be filed with the Graduate Office and with the Dean of Admissions.

4. A grade of no less than "C" in student teaching at the undergraduate level.

ADMISSION TO CANDIDACY FOR THE DEGREE OF MASTER OF ARTS IN EDUCATION, MASTER OF ARTS IN ENGLISH, OR MASTER OF ARTS IN HISTORY

1. Completion of the verbal ability and the quantitative ability sections of the Graduate Record Aptitude Tests. The test must be taken during the first semester of course work. The cut-off point is 800 (scaled scores), and a student falling below this point must

appeal through his advisory committee to the Graduate Council for consideration for his degree candidacy.

2. (a) A minimum of 15 semester hours of graduate course work must be taken after the test is successfully completed.

(b) A minimum of 6 semester hours of graduate course work must be completed with a standing of at least 3.0.

3. An interview with the Graduate Committee.

4. Approval by the Graduate Council upon the recommendation of the student's advisory committee. In making the recommendation, the advisory committee will take into consideration personality, character, academic proficiency, and any other factors which are deemed important for the particular curriculum in which the student is working.

5. Each graduate committee will apply additional criteria which have been developed by the committee for the selection of students in their own particular curriculum area. A copy of the criteria developed by each graduate committee shall be filed with the Graduate School.

6. A valid teaching certificate, based on four years of standard college preparation in the state in which it was issued.

After a student becomes a candidate for the Master's degree, he will then be expected to meet all course requirements prescribed in his curriculum and to satisfy all residence and other degree requirements as prescribed by the institution. The Graduate Office will verify his eligibility for an oral examination and the granting of the degree in accordance with approved curriculum patterns on file with the Division of Teacher Education and Certification in Frankfort.

Late Registration.—No student will be permitted to register for regular day classes after the second week of a semester or after the first week of a summer term. Special consideration for registration beyond these periods of time may be required from the Admissions Committee.

Withdrawal from the University.—Students who find it necessary to leave the University under any conditions must visit the Office of the Dean of Students and secure an official Withdrawal Card. This card is then processed with appropriate personnel on the campus in order that all campus records may be cleared. Unless this procedure is followed the permanent records in the Registrar's Office are incomplete. Thus students receive grades of "F" for the semester's courses and would not be eligible for readmission.

Official Schedule Changes.—The University reserves the right to cancel a course when the registration is not sufficient to warrant its continuance, to divide classes if the enrollment is too large for efficient instruction, and to change instructors when necessary. Additional courses will be organized if the demand is sufficient.

Transfer of Credit and Extension Work.—A graduate student is permitted to take a maximum of 6 semester hours of credit off the Eastern campus. These credits may be earned either by extension or by transfer from another institution provided the course work is acceptable to the curriculum in which the student is working. In no case can the total number of extension and transfer credits exceed 6 semester hours.

REQUIREMENTS FOR ALL CANDIDATES FOR THE MASTER'S DEGREE

1. A student may receive the Master's degree when he has completed other requirements set out in these regulations and in addition thereto has completed a four-year curriculum for the education of elementary or secondary teachers as prescribed by the Council on Public Higher Education or holds a certificate based upon four years of standard college preparation and valid for teaching in the state in which it was issued.

2. The students shall have an average standing of at least 3.0 and no credit shall be granted for a grade below "C".

3. Graduate students may take upper division courses but at least 50 per cent of all course work must be in courses open to graduate students only.

4. Requirements for the degree of Master of Arts in Education or Master of Arts in English may be satisfied by one of the following plans:

Plan I—With a Thesis

The residence requirements shall be 36 weeks. The minimum course credit shall be twenty-four semester hours, and six semester hours will be allowed for the thesis.

Plan II—Without a Thesis

The residence requirements shall be 36 weeks. The minimum credit shall be 30 semester hours.

5. The student shall pass a final examination on all fields presented toward fulfillment of requirements for the degree of Master of Arts in Education, Master of Arts in English, or Master of Arts in History.

6. Teachers holding what would ordinarily be considered a full-time position shall not be permitted to receive graduate credit for more than 4 semester hours during any semester.

7. Residence credit for part-time study at the graduate level shall be 1½ weeks for each semester hour of credit and shall apply to students who carry less than a minimum full-time load.

8. One-half of the course requirements and one-half of the residence work shall be done as a full-time graduate student. In evaluating residence credits a summer term of 8 weeks, with a minimum load of 6 semester hours of credit shall be regarded as 9 weeks in residence.

9. The average graduate student unless special approval is secured from the Dean of the Graduate School, should take a load ranging from 12 to 15 hours per semester with a maximum of 8 hours per summer term of 8 weeks.

10. Part-time students with full-time positions are advised to take loads ranging from 2 to 4 hours per semester, and are expected to meet the high standards prescribed for full-time students.

11. Twelve hours of graduate work earned on a part-time basis shall entitle the student to one semester of residence.

12. Graduate students planning to pursue a Master's degree will be expected to take the Graduate Record Examination at least during the first semester or summer of residence. It is to the students advantage to have taken this examination before entering Graduate School.

13. The student should have a graduate committee appointed during the first semester or summer term that he is a student at Eastern, or before entering the Graduate School. The chairman of his graduate committee will act as his advisor.

14. A graduate student is expected to complete requirements for the degree no later than eight years after beginning course work. In cases of hardship the time limit may be extended to ten years with the approval of the Graduate Council.

The following requirements are set forth for candidates in the various fields:

Master of Arts Degree in Education

1. Every candidate for the degree of Master of Arts in Education shall present a minimum of 9 semester hours of graduate credit in professional education and must have had a minimum of 27 semester hours at the undergraduate and/or graduate level.

The minimum residence for a student who does not have a minimum of 12 semester hours in education, upon being admitted to the Graduate School, shall be 45 weeks to complete course requirements for the degree of Master of Arts in Education.

2. The remainder of the course work shall be determined by the institution in terms of the student's need, provided that it shall be upper division and/or graduate courses.

3. A student preparing for the secondary certificate must select a major field of interest in which he has at least a minor of eighteen hours. If he does not have a minor, he will be required to take work at the undergraduate level sufficient to make the minor.

4. The Master's degree shall not be granted to one who does not have at least thirty hours in his major field, including both graduate and undergraduate work.

The following requirements are set forth for those pursuing a Master's degree in English:

1. The student must meet all requirements of and be admitted to the Graduate School. In addition, he must meet all requirements for degree candidacy.

2. Graduate work in English normally requires an undergraduate major in English from an accredited college.

3. At least a 3.0 standing must have been achieved in the upper division English courses taken, or, if this normal prerequisite is lacking, compensatory strengths and/or remedial work may be considered.

4. In order to be eligible for the advanced English degree, a student must make scores satisfactory to the Department in both the Verbal Aptitude Test and the Advanced Literature Test of the Graduate Record Examination. In lieu of this requirement, the student must indicate special strengths which are at least of equal importance to the achievement of satisfactory test scores on these examinations.

The following requirements are necessary for admission of students pursuing the Master's degree in history.

1. The applicant must meet all requirements of and be admitted to the Graduate School. In addition, he must meet all requirements for degree candidacy.

2. Satisfactory performance on the Graduate Record Examination, including the Advanced Test in history. A score of at least 800 is required on the Aptitude Section.

3. A high standard of undergraduate achievement, normally a 2.75 over-all standing (on a 4.0 scale).

4. Completion of a satisfactory undergraduate major in history.

5. Two letters of recommendation from faculty members with whom the applicant has studied.

SEMINAR REQUIREMENTS

Seminars or research courses are required of graduate students. Two types of seminar are provided: (1) for graduate students who prepare a Master's thesis and (2) for students who do not prepare a thesis.

THE THESIS

The thesis should show, among other things, the following characteristics: (a) ability of the candidate to work independently on an approved problem; (b) a reasonable familiarity with the literature of the field of specializations; (c) a practical working knowledge of research methods; and (d) conclusions justified by supporting data.

The thesis must conform to regulations approved by the Graduate Council for writing theses. Two typewritten copies of the thesis must be filed in the University Library at least one week before the degree is conferred.

EXAMINATIONS

Before the graduate student can become a candidate for the Master's degree he must take the Graduate Record Examination. This examination is given each semester and each summer term. At least one-half of the work required for the degree must be completed after the qualifying examination.

The graduate student shall, upon official notification, pass an oral and/or written examination on his major, his minor fields, and his thesis.

APPLICATION FOR DEGREE

A student planning to receive the Master's degree in June should file application before the end of the first semester. August candidates should file application not later than the beginning of the second semester. Applications should be filed in the office of the Dean of the Graduate School. Fees are to be paid at the Business Office and receipts presented in the office of the Dean of the Graduate School.

CURRICULA

The institution has worked out specific curricula for the following certificates: Standard Elementary Certificate, Standard High School Certificate, Provisional Certificate for Principalship, Provisional Certificate for Supervisor, and Provisional Certificate for Guidance Counselor. Elementary and secondary teachers may take work leading to Rank I. The Standard Leadership Certificate, covering principalship, supervision, and superintendency is available for school leaders who complete a planned curriculum for one year above the Master's degree. The Standard Certificate is also available for Guidance Counselors.

Information concerning these curricula may be obtained from the Dean of the Graduate School.

AREAS OF CONCENTRATION

Eastern offers areas of concentration in the following fields:

- Art
- Business Education
- Business—Accounting
- Business—Economics
- Business—General Business
- Elementary Education
- English
- Foreign Languages
- Health, Physical Education and Recreation
- Home Economics
- Industrial Education
- Industrial Technology
- Music
- Science
- Social Science

Eastern offers majors in the following subjects:

- Anthropology
- Art
- Biology
- Business Education—Accounting
- Business Education—General Business
- Business Education—Secretarial Practice
- Chemistry
- Earth Science
- Economics
- English
- French
- Geography
- Geography and Geology
- German
- History
- Industrial Education
- Industrial Technology
- Latin
- Mathematics
- Music
- Physical Education
- Physics
- Political Science
- Psychology
- Russian
- Sociology
- Spanish
- Speech
- Speech and Drama

Eastern offers minors in the following subjects:

- Agriculture
- Anthropology
- Art
- Biology
- Business Education—Accounting
- Business Education—General Business
- Business Education—Secretarial Practice
- Chemistry
- Drama
- Earth Science
- Economics
- English
- French
- Geography
- Geography and Geology
- Geology
- German
- Health
- History
- Home Economics
- Industrial Technology
- Latin
- Library Science
- Mathematics
- Music
- Physical Education
- Physics
- Political Science
- Psychology
- Russian
- Sociology
- Spanish
- Speech

"I, II, and A" indicate the fall semester, spring semester, and by announcement, respectively.

PART 5

COURSES OF INSTRUCTION

EASTERN KENTUCKY UNIVERSITY
UNITED WE STAND ★ DIVIDED WE FALL
FOUNDED 1906
RICHMOND

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Central University College

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CENTRAL UNIVERSITY COLLEGE

Clyde J. Lewis, Dean

This college, which began operation in September, 1966 functions at the freshman-sophomore level to supervise and administer academic counseling, student programs and the general education curriculum.

The following regulations govern student academic affairs in the Central University College:

1. All beginning students entering the institution will be enrolled in the Central University College except those entering the two-year programs in the College of Technology and Business and certain other less than baccalaureate programs.
2. The Central University College will be responsible for administering all of its students' academic affairs, such as academic probation, change in courses, student load, waiving of courses, granting of credit by examination, etc. Policy decisions in such matters, however, must be made in cooperation with the Dean of the College offering the course or courses. The Dean of the Central University College will be ultimately responsible for the administration of academic advising during the freshman and sophomore years.
3. Students will be limited to five full-time semesters or equivalent in semester hours in the Central University College. Exceptions will require special permission from the Dean of the Central University College.
4. Transfer to an advanced college will require completion of 64 hours with a 2 point average in addition to meeting the core general education requirements and the specific admission requirements of the advanced college.
5. Students in the Central University College will not be permitted to take more than 12 hours of course work which will meet upper division requirements in an advanced college. Such courses will not be taken before the third semester in the Central University College. In such cases, permission must be obtained from the Dean of the Advanced College.
6. Transfer students who do not meet the admission requirements for advanced colleges must enroll in the Central University College until such requirements are met. Such students may take course work in the advanced college with permission of the Dean of the college in question. The amount of such work will not exceed 12 upper division hours in the advanced college.

7. Students in advanced colleges may take work at the Central University College level if they have permission of their Dean. However, except in special cases, they will not be permitted to take courses lower than the 200 level.

The College's Academic Advising Office provides services for most students enrolled in the first two years. Advisors are drawn largely from the academic faculties. They help students plan programs which permit achievement approaching a maximum of potential. The supervision provided here is meant to avoid the waste of time and effort that usually results from drifting through the first two years of college.

The Central University College also provides an integrated curriculum which covers broad areas of knowledge, encompassing all the important fields needed by educated persons. These fields include experiences and understandings which are valuable to the individual and which will help the individual make his contribution to society. The program has been carefully designed to synthesize ideas so that emphasis is placed upon essential concepts rather than upon mere fact gathering. The core of the program includes 23 semester hours in Communications, Natural Sciences, Social Science, and Health and Physical Education. In addition, 24 more semester hours may be taken in general education course work required by the institution for graduation. This is a flexible program containing general education courses arranged in logical sequences along with adequate specialized and professional course work.

In addition to the general education courses, students in the Central University College also take preparatory courses for specialized training in their major and minor fields. The course patterns meeting these requirements in the advanced colleges are shown in the following pages.

GENERAL STUDIES COURSES

General Studies 101*. (Formerly English 101) English Composition I. Three hours. I, II.

Study or review of the mechanics of expression, such as grammar, punctuation, spelling, and sentence structure; word study and good usage, including close attention to the dictionary; primary emphasis on various aspects of written composition, including paragraph organization, theme organization, and presentation of written material from the student's experience, observation, reading, and study; some practice in more effective oral communication, reading, listening, and thinking.

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* If the student's test scores on the ACT and the Barrett-Ryan English Tests are 80 percentile or higher, he will go directly into General Studies 102. In such cases, three hours of approved upper division English must be substituted as a graduation requirement.

General Studies 102. (Formerly English 102) English Composition II. **Three hours. I, II.**

Prerequisite: General Studies 101 (or equivalent)

Continued practice in composition; emphasis on good theme organization, outlining, longer compositions; at least one thorough library paper which employs the basic principles of research; emphasis on more advanced aspects of thinking and writing; some attention paid to matters of style; emphasis on reading and analysis, including the explication of literature, with some emphasis on poetry; acceptable usage in speaking and writing.

General Studies 140. (Formerly Social Science 100) Contemporary Social Problems. **Three hours. I, II.**

Biological, psychological, and geographic factors in human development; culture; population; problems of the family; the nature and development of education; the organization and role of modern education; recreational institutions; economics institutions and problems; the problems of government; alternative, economic, and government systems; international relations.

General Studies 142. The Past in Perspective. **Three hours. I.**

The scientific approach to human history; nature of culture and civilization; major factors affecting cultural dynamics: geographical, psychological, traditional, technological, and diffusional; development of the major pre-historic cultures; survey of the major civilizations in time and space.

General Studies 144. (Formerly Social Science 101) Contemporary Social Problems. **Three hours. I, II.**

A continuation of General Studies 140.

General Studies 161. (Formerly Science 112) Plant Science. **Three hours. I, II.**

(Not open to students who have completed college laboratory courses in biology or botany.)

The principles of plant biology, with emphasis on the angiosperms; basic concepts of reproduction in plants and inheritance. Two lecture hours and two laboratory hours.

General Studies 162. (Formerly Science 111) Animal Science. **Three hours. I, II.**

(Not open to students who have completed college laboratory courses in biology or zoology.)

The principles of animal biology, with emphasis on the vertebrates and the basic concepts of evolution. Two lecture hours and two laboratory hours.

General Studies 170. (Formerly Science 110) Physical Science (Chemistry). **Three hours. I, II.**

(Not open to students who have completed college laboratory courses in chemistry.)

The purpose of this course is to present some of the basic principles of chemistry and to show how chemistry affects man in both the economic and cultural areas of his life and activities. Two lecture hours and two laboratory hours.

General Studies 176. (Formerly Science 109) Physical Science (Physics). **Three hours. I, II.**

(Not open to students who have completed college laboratory courses in physics.)

A course designed to give the students whose primary interests are in other fields an understanding of some basic scientific problems and their importance in the scientific age. Topics on force, energy, heat, sound, light, electricity, magnetism, electrons, and nuclear phenomena give the student a broad view of the universe. Two lecture hours and two laboratory hours.

General Studies 180. (Formerly Physical Education 115) Fundamental Physical Education Activities. **One hour. I.**

Activities for Men:

- Bowling
- Dance
- Physical Maintenance
- Tennis
- Volleyball
- Golf
- Soccer
- Swimming
- Tumbling Apparatus
- Wrestling
- Badminton
- Track and Field
- Handball
- Developmental Physical Education
- Adapted Physical Education

Activities for Women:

- Bowling
- Dance
- Physical Maintenance
- Tennis
- Volleyball
- Golf
- Soccer
- Swimming
- Tumbling Apparatus
- Archery
- Badminton
- Track and Field
- Field Hockey
- Basketball
- Developmental Physical Education
- Adapted Physical Education

General Studies 181. (Formerly Physical Education 116) Fundamental Physical Education Activities. **One hour. II.**

A continuation of General Studies 180.

General Studies 246. (Formerly History 246) History of Western Civilization. **Three hours. I, II.**

The emergence of pre-industrial culture; patterns of pre-industrial culture in the Near East, the Mediterranean Basin, and in Europe before the nineteenth century.

General Studies 247. (Formerly History 247) History of Western Civilization. **Three hours. I, II.**

The developing culture pattern of the industrial era of the 19th and 20th centuries, with progressively more attention to its world-wide influences and with progressively more illustrative material drawn from the United States.

General Studies 248. The Human Problem in the 20th Century. **Three hours. A.**

Implications of 20th Century technology; economic maladjustments; population growth and the depletion of resources; roots of contemporary collectivism; threats to personal liberty; conformity and mass psychology; personal and social disorganization; the malfunctioning state system; implications of the military complex; war as the ultimate problem.

General Studies 281. (Formerly Health 201) Personal and Community Health. **Three hours. I, II.**

A basic health content course with the emphasis on personal living habits and how they are affected by group living.

CENTRAL UNIVERSITY COLLEGE CURRICULA

Recommended Preparatory Curricula For Majors in Advanced Colleges

ACCOUNTING

College of Business

Recommended curriculum for a major in Accounting

First Year

First Semester	Hours	Second Semester	Hours
Accounting 124	3	Accounting 125	3
General Studies 101	3	General Studies 102	3
General Studies 142	3	General Studies 161 or 162	3
General Studies 170, 176, or Geology 108	3	General Studies 181	1
General Studies 180	1	General Studies 246	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
	15		15

Second Year

Accounting 126	3	Accounting 225	3
Economics 230	3	Accounting 227	3
English 209 or 211	3	Economics 231	3
General Studies 247	3	English 210 or 212	3
General Studies 281	3	General Studies 248	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
	17		17

ANTHROPOLOGY

College of Arts and Sciences

Recommended curriculum for a major in Anthropology without right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
Anthropology 110	3	Foreign Language	3
Foreign Language	3	General Studies 102	3
General Studies 101	3	General Studies 162	3
General Studies 161	3	General Studies 181	1
General Studies 180	1	Military Science 102 (Men) or Elective (Women)	2
Military Science 101 (Men) or Elective (Women)	2	Political Science 100	3
	15		15

Second Year

Anthropology 230	3	Art 200 or Music 271	3
English 211	3	English 212	3
General Studies 176	3	General Studies 247	3
General Studies 246	3	Geology 108	3
General Studies 281	3	Military Science 202 (Men) or Elective (Women)	2
Military Science 201 (Men) or Elective (Women)	2	Sociology 231	3
	17		17

ART

College of Arts and Sciences

Recommended curriculum for a major in Art without right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
Art 100	3	Art 101	3
Art 102	3	Art 103	3
General Studies 101	3	General Studies 102	3
General Studies 161 or 162	3	General Studies 170, 176, or Geology 108	3
General Studies 180	1	General Studies 181	1
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
	15		15

Second Year

Art 203	3	Art 227	3
Art 229	3	English 212	3
English 211	3	General Studies 247	3
General Studies 246	3	General Studies 248, Political Science 100, or Geography 330	3
General Studies 281	3	Military Science 202 (Men) or Elective (Women)	2
Military Science 201 (Men) or Elective (Women)	2	Minor elective	3
	17		17

ART

College of Arts and Sciences

Recommended curriculum for an area in Art with right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
Art 100	3	Art 101	3
Art 102	3	Art 103	3
General Studies 101	3	General Studies 102	3
General Studies 142	3	General Studies 176 or Geology 108	3
General Studies 162	3	General Studies 181	1
General Studies 180	1	General Studies 246	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
	18		18

Second Year

Art 203	3	Art 204	3
Art 227	3	Art 229	3
English 211	3	Education 202	3
General Studies 247	3	English 212	3
Military Science 201 (Men) or Elective (Women)	2	General Studies 281	3
Psychology 211	3	Military Science 202 (Men) or Elective (Women)	2
	17		17

ART

College of Arts and Sciences

Recommended curriculum for a major in Art with right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
Art 100	3	Art 101	3
Art 102	3	Art 103	3
General Studies 101	3	General Studies 102	3
General Studies 142	3	General Studies 176 or Geology 108	3
General Studies 162	3	General Studies 181	1
General Studies 180	1	General Studies 246	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
	18		18

Second Year

Art 203	3	Art 204	3
English 211	3	Education 202	3
General Studies 247	3	English 212	3
Military Science 201 (Men) or Elective (Women)	2	General Studies 281	3
Psychology 211	3	Military Science 202 (Men) or Elective (Women)	2
Elective	3	Elective	3
	17		17

BIOLOGY

College of Arts and Sciences

Recommended curriculum for a major in Biology with right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
Art 200, Drama 100, Foreign Language, or Music 271	3	Art 200, Drama 100, Foreign Language, or Music 271	3
Biology 111	4	Biology 111, 131, or 141	4
Chemistry 111 or Mathematics 107	3-4	Chemistry 112 or Mathematics 113	3-5
General Studies 101	3	General Studies 102	3
General Studies 180	1	General Studies 181	1
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
	16-17		16-18

Second Year

Biology 121 or 141	4	Biology 303 or 342	4-5
Chemistry 111 or Mathematics 107	3-4	Chemistry 112 or Mathematics 113	3-5
General Studies 246	3	Education 202	3
Military Science 201 (Men) or Elective (Women)	2	General Studies 247	3
Psychology 211	3	General Studies 281	3
		Military Science 202 (Men) or Elective (Women)	2
	15-16		18-21

BOTANY-ZOOLOGY

College of Arts and Sciences

Recommended curriculum for a major in Botany-Zoology without right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
Art 200, Drama 100, Foreign Language, or Music 271	3	Art 200, Drama 100, Foreign Language, or Music 271	3
Biology 111	4	Biology 111, 131, or 141	4
Chemistry 111 or Mathematics 107	3-4	Chemistry 112 or Mathematics 113	3-5
General Studies 101	3	General Studies 102	3
General Studies 180	1	General Studies 181	1
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
	16-17		16-18

Second Year

Biology 121 or 141	4	Biology 221 or 242	4-5
Chemistry 111 or Mathematics 107	3-4	Chemistry 112 or Mathematics 113	3-5
English 209 or 211	3	General Studies 247	3
General Studies 246	3	General Studies 281	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
	15-16		15-18

BUSINESS EDUCATION

College of Business

Recommended curriculum for Business Teacher Education

First Year

First Semester	Hours	Second Semester	Hours
Accounting 124	3	Accounting 125	3
Business Education 151 or 152	2	Business Education 152 or 253	2
General Studies 101	3	General Studies 102	3
General Studies 142	3	General Studies 161 or 162	3
General Studies 170, 176, or Geology 108	3	General Studies 181	1
General Studies 180	1	General Studies 246	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
	17		17

Second Year

Accounting 126	3	Business Education 116 or 202	3
Business Education 115 or 116	3	Economics 231	3
Economics 230	3	Education 202	3
General Studies 247	3	General Studies 248	3
Military Science 201 (Men) or Elective (Women)	2	General Studies 281	3
Psychology 211	3	Military Science 202 (Men) or Elective (Women)	2
	17		17

CHEMISTRY

College of Arts and Sciences

Recommended curriculum for a major in Chemistry without right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
Biology 111	4	Chemistry 112	5
Chemistry 111	4	General Studies 102	3
General Studies 101	3	General Studies 140	3
General Studies 180	1	General Studies 181	1
Mathematics 107	3	Mathematics 113	3
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
	17		17

Second Year

Chemistry 211	5	Chemistry 212	5
English 211	3	English 212	3
General Studies 246	3	General Studies 247	3
General Studies 281	3	Mathematics 232	3
Mathematics 108	2	Military Science 202 (Men)	
Military Science 201 (Men)		or	
or		Elective (Women)	2
Elective (Women)	2	Elective	2-3
	18		18-19

CHEMISTRY

College of Arts and Sciences

Recommended curriculum for a major in Chemistry with right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
Biology 111	4	Chemistry 112	5
Chemistry 111	4	General Studies 102	3
General Studies 101	3	General Studies 181	1
General Studies 180	1	General Studies 281	3
Mathematics 107	3	Mathematics 113	3
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
	17		17

Second Year

Chemistry 211	5	Chemistry 212	5
English 211	3	Education 202	3
General Studies 246	3	English 212	3
Military Science 201 (Men)		General Studies 247	3
or		Military Science 202 (Men)	
Elective (Women)	2	or	
Psychology 211	3	Elective (Women)	2
	16		16

GEOGRAPHY AND GEOLOGY

College of Arts and Sciences

Recommended curriculum for a major in Geography and Geology without right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	Art 200	3
General Studies 161	3	General Studies 102	3
General Studies 180	1	General Studies 162	3
Geography 101	3	General Studies 181	1
Military Science 101 (Men)		Geography 102	3
or		Military Science 102 (Men)	
Elective (Women)	2	or	
Elective	5	Elective (Women)	2
		Elective	3
	17		18

Second Year

English 211	3	English 212	3
General Studies 246	3	General Studies 247	3
General Studies 281	3	Geography elective	3
Geography elective	3	Geology elective	3-4
Military Science 201 (Men)		Military Science 202 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Elective	3	Elective	3
	17		**17-18**

* Electives should be chosen from the following courses: Anthropology 110; Agriculture 211; Chemistry 111, 112; Business 161, 162, 171, 172; Mathematics 107, 108, 113, 251; General Studies 176 (Physics); any introductory foreign languages.

EARTH SCIENCE

College of Arts and Sciences

Recommended curriculum for a major in Earth Science without right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
Chemistry 111 or Physics 131	4-5	Chemistry 112 or Physics 132	5
General Studies 101	3	General Studies 102	3
General Studies 180	1	General Studies 140	3
General Studies 281	3	General Studies 181	1
Mathematics 107	3	Mathematics 113	3
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
	16-17		17

Second Year

Chemistry 111 or Physics 131	4-5	Chemistry 112 or Physics 132	5
English 211	3	English 212	3
General Studies 246	3	General Studies 247	3
Geology 200	4	Geology 305	3
Military Science 201 (Men)		Military Science 202 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
	16-17		**16**

ELEMENTARY EDUCATION

College of Education

Recommended curriculum for a major in Elementary Education

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	General Studies 102	3
General Studies 142	3	General Studies 144 or 246	3
General Studies 180	1	General Studies 181	1
Geography 101 or 102 or Humanities Elective*	3	Geography 101 or 102 or Humanities Elective*	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Required Science**	3	Required Science**	3
	15		15

Second Year

English 211	3	Education 202	3
General Studies 246 or 247	3	English 212	3
General Studies 281	3	General Studies 247 or 248	3
Military Science 201 (Men) or Elective (Women)	2	Mathematics 201	3
Psychology 211	3	Military Science 202 (Men) or Elective (Women)	2
Required Science**	3	Required Science**	3
	17		17

* Selected from among Art 200, Drama 100, or Foreign Language. If a foreign language is elected six hours must be taken in the same foreign language to meet the Humanities requirement.

** Required science includes any four of the following five courses: Geology 108, General Studies 161, 162, 170, 176.

GENERAL BUSINESS

College of Business

Recommended curriculum for Economics, Finance, General Business, Management, and Marketing majors

First Year

First Semester	Hours	Second Semester	Hours
Accounting 124 or Business 101	3	Accounting 124 or 125	3
General Studies 101	3	General Studies 102	3
General Studies 142	3	General Studies 161 or 162	3
General Studies 180	1	General Studies 181	1
Geology 108	3	General Studies 246	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
	15		15

Second Year

Economics 230	3	Business 240	3
English 209 or 211	3	Economics 231	3
General Studies 170 or 176	3	English 210 or 212	3
General Studies 247	3	General Studies 170 or 176	3
General Studies 281	3	General Studies 248	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
	17		17

ENGLISH

College of Arts and Sciences

Recommended curriculum for a major in English

First Year

First Semester	Hours	Second Semester	Hours
Anthropology 110; General Studies 140 or 142; Geography 101, 102, or 199; or Political Science 100	3	Foreign Language	3
Biology 111 or General Studies 161	3-4	General Studies 102	3
Foreign Language	3	General Studies 144 or Political Science 101	3
General Studies 101	3	General Studies 162 or Biology 111, 131, or 141	3-4
General Studies 180	1	General Studies 181	1
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
		Speech 131 or elective	3
	15-16		18-19

Second Year

English 209 or 211	3	Education 202 or elective*	3
English 213, 214, or 215	3	English 210 or 212	3
Foreign Language	3	Foreign Language	3
General Studies 246	3	General Studies 247	3
Military Science 201 (Men) or Elective (Women)	2	General Studies 281	3
Psychology 211 or elective*	3	Military Science 202 (Men) or Elective (Women)	2
	17		17

FOREIGN LANGUAGE

College of Arts and Sciences

Recommended curriculum for a major in Foreign Language with right of teaching Certificate

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	General Studies 102	3
General Studies 161	3	General Studies 140	3
General Studies 180	1	General Studies 162	3
General Studies 281	3	General Studies 181	1
First Language 201	3	First Language 202	3
Second Language 101	3	Second Language 102	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
	18		18

Second Year

English 211	3	Education 202	3
General Studies 246	3	English 212	3
First Language 303	3	General Studies 247	3
Second Language 201	3	First Language 304	3
Military Science 201 (Men) or Elective (Women)	2	Second Language 302	3
Psychology 211	3	Military Science 202 (Men) or Elective (Women)	2
	17		17

* For students taking the English curriculum without right of teaching certificate, Psychology 211 and Education 202 are not required.

GENERAL BUSINESS

GEOGRAPHY

College of Arts and Sciences

Recommended curriculum for a major in Geography with right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	Art 200	3
General Studies 161	3	General Studies 102	3
General Studies 180	1	General Studies 162	3
Geography 101 or 199	3	General Studies 181	1
Military Science 101 (Men)		Geography 101 or 199	3
or		Military Science 102 (Men)	
Elective (Women)*	2	or	
Elective*	5	Elective (Women)*	2
		Elective*	3
	17		18

Second Year

English 211	3	Education 202	3
General Studies 246	3	English 212	3
Geography 102	3	General Studies 247	3
Military Science 201 (Men)		General Studies 281	3
or		Geography 202 or 221	3
Elective (Women)*	2	Military Science 202 (Men)	
Psychology 211	3	or	
Elective*	3	Elective (Women)*	2
	17		17

HISTORY

College of Arts and Sciences

Recommended curriculum for a major in History with one minor in another field and without right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
Foreign Language	3	Foreign Language	3
General Studies 101	3	General Studies 102	3
General Studies 142	3	General Studies 181	1
General Studies 161	3	General Studies 246	3
General Studies 180	1	History 202	3
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
	15		15

Second Year

English 211	3	English 212	3
Foreign Language	3	Foreign Language	3
General Studies 247	3	General Studies 162	3
General Studies 281	3	General Studies 248	3
History 203	3	History elective	3
Military Science 201 (Men)		Military Science 202 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
	17		17

HISTORY

College of Arts and Sciences

Recommended curriculum for a major in History with one minor in another field and with right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
Foreign Language	3	Foreign Language	3
General Studies 101	3	General Studies 102	3
General Studies 142	3	General Studies 181	1
General Studies 161	3	General Studies 246	3
General Studies 180	1	History 202	3
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
	15		15

Second Year

English 211	3	Education 202	3
General Studies 247	3	English 212	3
General Studies 281	3	General Studies 162	3
History 203	3	General Studies 248	3
Military Science 201 (Men)		History Elective	3
or		Military Science 202 (Men)	
Elective (Women)	2	or	
Psychology 211	3	Elective (Women)	2
	17		17

HISTORY

College of Arts and Sciences

Recommended curriculum for a major in History and Social Science without right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
Foreign Language	3	Foreign Language	3
General Studies 101	3	General Studies 102	3
General Studies 142	3	General Studies 162	3
General Studies 161	3	General Studies 181	1
General Studies 180	1	General Studies 246	3
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
	15		**15**

Second Year

English 211	3	Economics 230 or 231	3
Foreign Language	3	English 212	3
General Studies 247	3	Foreign Language	3
General Studies 281	3	General Studies 248	3
History 202	3	History 203	3
Military Science 201 (Men)		Military Science 202 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
	17		**17**

HISTORY

College of Arts and Sciences

Recommended curriculum for a major in History and Social Science with right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	General Studies 102	3
General Studies 142	3	General Studies 162	3
General Studies 161	3	General Studies 181	1
General Studies 180	1	General Studies 246	3
Geography 101	3	Military Science 102 (Men) or Elective (Women)	2
Military Science 101 (Men) or Elective (Women)	2	Political Science 101	3
	15		15

Second Year

English 211	3	Economics 230 or 231	3
General Studies 247	3	Education 202	3
General Studies 281	3	English 212	3
History 202	3	General Studies 248	3
Military Science 201 (Men) or Elective (Women)	2	History 203	3
Psychology 211	3	Military Science 202 (Men) or Elective (Women)	2
	17		17

HOME ECONOMICS

College of Applied Arts and Technology

Recommended curriculum for a major in Home Economics with right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
Art 117	3	Chemistry 111	4
General Studies 101	3	General Studies 102	3
General Studies 142	3	General Studies 181	1
General Studies 162	3	General Studies 246	3
General Studies 180	1	Home Economics 204	3
Home Economics 203	3	Home Economics 208	3
	16		17

Second Year

English 211	3	Art 200	3
General Studies 247	3	Education 202	3
General Studies 281	3	English 212	3
Home Economics 206	3	General Studies 248	3
Home Economics 307	3	Home Economics 215	3
Psychology 211	3	Home Economics 231	2
	18		17

INDUSTRIAL ARTS

College of Applied Arts and Technology

Recommended curriculum for a Comprehensive Area major in Industrial Arts with right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	General Studies 102	3
General Studies 170 or 176	3	General Studies 170 or Geology 108	3
General Studies 180	1	General Studies 181	1
Industrial Arts 130	1	Industrial Arts 180	3
Industrial Arts 141	3	Industrial Arts 292	3
Industrial Arts 191	3	Mathematics Elective	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
	16		18

Second Year

Education 202	3	English 210 or 212	3
English 209 or 211	3	General Studies 247	3
General Studies 246	3	General Studies 281	3
Industrial Arts 242	3	Industrial Arts 351	3
Industrial Arts 281	3	Military Science 202 (Men) or Elective (Women)	2
Military Science 201 (Men) or Elective (Women)	2	Psychology 211	3
	17		17

INDUSTRIAL ARTS

College of Applied Arts and Technology

Recommended curriculum for a Specialized Area major in Industrial Arts with right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	General Studies 102	3
General Studies 180	1	General Studies 181	1
Industrial Arts 130	1	General Studies 281	3
Industrial Arts 141	3	Industrial Arts 180	3
Industrial Arts 191	3	Industrial Arts 292	3
Mathematics 107	3	Mathematics 113	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
	16		18

Second Year

Education 202	3	English 210 or 212	3
English 209 or 211	3	General Studies 247	3
General Studies 246	3	Industrial Arts 281	3
Industrial Arts 242	3	Military Science 202 (Men) or Elective (Women)	2
Military Science 201 (Men) or Elective (Women)	2	Physics 132	5
Physics 131	5	Psychology 211	3
	19		19

INDUSTRIAL TECHNOLOGY

College of Applied Arts and Technology

Recommended curiculum for a major in Industrial Technology
without right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	Accounting 125	3
General Studies 180	1	General Studies 102	3
Industrial Technology 141	3	General Studies 181	1
Industrial Technology 191	3	Industrial Technology 281	3
Mathematics 107	3	Industrial Technology 292	3
Military Science 101	2	Mathematics 113	3
Speech 131 or 205	3	Military Science 102	2
	18		18

Second Year

English 209 or 211	3	Chemistry 111	4
General Studies 246	3	General Studies 247	3
General Studies 281	3	Industrial Technology 382	3
Industrial Technology 242	3	Military Science 202	2
Military Science 201	2	Physics 132	5
Physics 131	5		
	19		17

LAW ENFORCEMENT

College of Applied Arts and Technology

Recommended curriculum for a major in Law Enforcement
without right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
Business 151	2	General Studies 102	3
General Studies 101	3	General Studies 170	3
General Studies 176	3	General Studies 181	1
General Studies 180	1	Health 202	2
Law Enforcement 101	3	Law Enforcement 102	3
Military Science 101	2	Military Science 102	2
Political Science 100	3	Political Science 101	3
	17		17

Second Year

English 211	3	English 212	3
General Studies 162	3	General Studies 161	3
General Studies 246	3	General Studies 247	3
General Studies 281	3	Law Enforcement 205	3
Law Enforcement 203	3	Military Science 202	2
Military Science 201	2	*Minor Subject	3
	17		17

MANUAL ARTS THERAPY

College of Applied Arts and Technology

Recommended curriculum for an area major in Manual Arts Therapy with right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	General Studies 102	3
General Studies 162	3	General Studies 161	3
General Studies 180	1	General Studies 176	3
Industrial Arts 130	1	General Studies 181	1
Industrial Arts 141	3	Industrial Arts 180	3
Industrial Arts 191	3	Industrial Arts 292	3
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
	16		18

Second Year

Education 202	3	English 210 or 212	3
English 209 or 211	3	General Studies 247	3
General Studies 246	3	General Studies 281	3
Industrial Arts 242	3	Industrial Arts 351	3
Industrial Arts 281	3	Military Science 202 (Men)	
Military Science 201 (Men)		or	
or		Elective (Women)	2
Elective (Women)	2	Psychology 211	3
	17		17

MATHEMATICS

College of Arts and Sciences

Recommended curriculum for a major in Mathematics without right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	General Studies 102	3
General Studies 142	3	General Studies 181	1
General Studies 161 or 162	3	General Studies 246	3
General Studies 180	1	General Studies 281	3
Mathematics 107	3	Mathematics 108	2
Military Science 101 (Men)		Mathematics 113	3
or		Military Science 102 (Men)	
Elective (Women)	2	or	
		Elective (Women)	2
	15		17

Second Year

English 211	3	English 212	3
General Studies 247	3	Mathematics 251	5
Mathematics 232	3	Military Science 202 (Men)	
Military Science 201 (Men)		or	
or		Elective (Women)	2
Elective (Women)	2	Physics 132 or 202	5-6
Physics 131 or 201	5-6		
	16-17		15-16

* Minors are recommended in the fields of business, psychology, sociology, or political science. The minor field should be selected in consultation with the head of the Department of Law Enforcement. The courses comprising the minor field (18 semester hours) will be selected with the approval of the head of the Department of Law Enforcement and the department head in the minor field.

MATHEMATICS

College of Arts and Sciences

Recommended curriculum for a major in Mathematics with right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	General Studies 102	3
General Studies 142	3	General Studies 181	1
General Studies 161 or 162	3	General Studies 246	3
General Studies 180	1	General Studies 281	3
Mathematics 107	3	Mathematics 108	2
Military Science 101 (Men) or Elective (Women)	2	Mathematics 113	3
		Military Science 102 (Men) or Elective (Women)	2
	15		17

Second Year

English 211	3	Education 202	3
General Studies 247	3	English 212	3
Mathematics 232	3	General Studies 248	3
Military Science 201 (Men) or Elective (Women)	2	Mathematics 251	5
Psychology 211	3	Military Science 202 (Men) or Elective (Women)	2
Elective	3		
	17		16

MUSIC

College of Arts and Sciences

Recommended curriculum for Music Education (Wind or String emphasis) with right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
Applied	1	Applied	1
Ensembles	½	Ensembles	½
General Studies 101	3	General Studies 102	3
General Studies 170 or 176 or Geology 108	3	General Studies 162	3
General Studies 180	1	General Studies 181	1
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Music 130	1	Music 131	1
Music 181	2	Music 182	2
Music 191	2	Music 192	2
Piano	1	Piano	1
	16½		16½

Second Year

Applied	1	Applied	1
Ensembles	½	Education 202	3
General Studies 246	3	Ensembles	½
Military Science 201 (Men) or Elective (Women)	2	General Studies 247	3
Music 251	1	General Studies 281	3
Music 272	3	Military Science 202 (Men) or Elective (Women)	2
Music 281	2	Music 253	1
Music 291	2	Music 282	2
Psychology 211	3	Music 292	2
	17½		17½

MUSIC

College of Arts and Sciences

Recommended curriculum for an Area in Music Education (Voice or Keyboard emphasis) with right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
Applied	1	Applied	1
Ensembles	½	Ensembles	½
General Studies 101	3	General Studies 102	3
General Studies 170 or 176 or		General Studies 162	3
Geology 108	3	General Studies 181	1
General Studies 180	1	Military Science 102 (Men)	
Military Science 101 (Men)		or	
or		Elective (Women)	2
Elective (Women)	2	Music 131	1
Music 130	1	Music 182	2
Music 181	2	Music 192	2
Music 191	2	Piano	1
Piano	1		
	16½		16½

Second Year

Applied	1	Applied	1
Ensembles	½	Education 202	3
General Studies 246	3	Ensembles	½
Military Science 201 (Men)		General Studies 247	3
or		General Studies 281	3
Elective (Women)	2	Military Science 202 (Men)	
Music 251	1	or	
Music 272	3	Elective (Women)	2
Music 281	2	Music 253	1
Music 291	2	Music 282	2
Psychology 211	3	Music 292	2
	17½		17½

MUSIC

College of Arts and Sciences

Recommended curriculum for a major in Music without right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
Applied (Major)	2	Applied (Major)	2
Applied (Minor)	1	Applied (Minor)	1
Ensembles	½	Ensembles	½
General Studies 101	3	General Studies 102	3
General Studies 170, 176 or		General Studies 162	3
Geology 108	3	General Studies 181	1
General Studies 180	1	Military Science 102 (Men)	
Military Science 101 (Men)		or	
or		Elective (Women)	2
Elective (Women)	2	Music 182	2
Music 181	2	Music 192	2
Music 191	2	Piano 111	(1)
Piano 110	(1)		
	16½-17½		16½-17½

Second Year

Applied (Major)	2	Applied (Major)	2
Applied (Minor)	1	Applied (Minor)	1
Ensembles	½	Ensembles	½
Foreign Language	3	Foreign Language	3
General Studies 246	3	General Studies 247	3
Military Science 201 (Men)		General Studies 281	3
or		Military Science 202 (Men)	
Elective (Women)	2	or	
Music 272	3	Elective (Women)	2
Music 281	2	Music 282	2
Music 291	2	Music 292	2
	18½		18½

MUSIC

College of Arts and Sciences

Recommended curriculum for a major in Music (Instrumental or Vocal emphasis) with right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
Applied	1	Applied	1
Ensembles	½	Ensembles	½
General Studies 101	3	General Studies 102	3
General Studies 170, 176, or Geology 108	3	General Studies 162	3
General Studies 180	1	General Studies 181	1
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Music 130 or elective*	1	Music 131 or elective*	1
Music 181	2	Music 182	2
Music 191	2	Music 192	2
	16½		16½

Second Year

Applied	1	Applied	1
Ensembles	½	Education 202	3
General Studies 246	3	Ensembles	½
Military Science 201 (Men) or Elective (Women)	2	General Studies 247	3
Music 251 or elective course in 2nd Major*	1	General Studies 281	3
Music 272	3	Military Science 202 (Men) or Elective (Women)	2
Psychology 211	3	Music 253 or elective course in 2nd Major*	1
Elective	3	Elective	3
	16½		16½

PHYSICAL EDUCATION

College of Arts and Sciences

Recommended curriculum for a major in Physical Education (Men) with right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	Art 200 or Music 271	3
General Studies 140	3	General Studies 102	3
General Studies 162	3	General Studies 144	3
General Studies 180	1	General Studies 170, 176, or Geology 108	3
General Studies 281	3	General Studies 181	1
Military Science 101	2	Health 202	2
Physical Education 125	2	Military Science 102	2
	17		17

Second Year

English 211	3	Education 202	3
General Studies 246	3	English 212	3
Military Science 201	2	General Studies 247	3
Physical Education 215	2	Military Science 202	2
Physical Education elective	3	Physical Education 216	2
Psychology 211	3	Elective	3
	16		16

*Music 130, 131, 251, 253 required of students with an instrumental emphasis.

PHYSICAL EDUCATION

College of Arts and Sciences

Recommended curriculum for a major in Physical Education (Women) with right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	Art 200 or Music 271	3
General Studies 140	3	General Studies 102	3
General Studies 162	3	General Studies 144	3
General Studies 180	1	General Studies 170, 176, or Geology 108	3
General Studies 281	3	General Studies 181	1
Physical Education 125	2	Health 202	2
Elective	2	Elective	2
	17		17

Second Year

English 211	3	Education 202	3
General Studies 246	3	English 212	3
Physical Education 207	2	General Studies 247	3
Physical Education 245	2	Physical Education 208	2
Physical Education elective	3	Physical Education 212	1
Psychology 211	3	Elective	4
	16		16

PHYSICS

College of Arts and Sciences

Recommended curriculum for a standard major in Physics without right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	General Studies 102	3
General Studies 180	1	General Studies 181	1
Mathematics 232	3	Mathematics 251	5
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physics 107	1	Physics 202	6
Physics 201	6		
	16		17

Second Year

English 211	3	English 212	3
General Studies 246	3	General Studies 247	3
General Studies 281	3	Mathematics elective	3
Mathematics 352	3	Military Science 202 (Men) or Elective (Women)	2
Military Science 201 (Men) or Elective (Women)	2	Physics 307	4
Physics 300	3	Elective	3
	17		18

PHYSICS

College of Arts and Sciences

Recommended curriculum for an alternate major in Physics without right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	General Studies 102	3
General Studies 140, 142 or Political Science 100	3	General Studies 181	1
General Studies 180	1	General Studies 246	3
Mathematics 107	3	General Studies 281	3
Military Science 101 (Men) or Elective (Women)	2	Mathematics 108	2
Physics 131	5	Mathematics 113	3
		Military Science 102 (Men) or Elective (Women)	2
		Physics 107	1
	17		18

Second Year

Chemistry 111	4	Chemistry 112	5
General Studies 247	3	Mathematics 251	5
Mathematics 232	3	Military Science 202 (Men) or Elective (Women)	2
Military Science 201 (Men) or Elective (Women)	2	Physics 202	6
Physics 201	6		
	18		18

PHYSICS

College of Arts and Sciences

Recommended curriculum for a major in Physics with right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	General Studies 102	3
General Studies 140, 142, or Political Science 100	3	General Studies 181	1
General Studies 180	1	General Studies 246	3
Mathematics 107	3	General Studies 281	3
Military Science 101 (Men) or Elective (Women)	2	Mathematics 108	2
Physics 131	5	Mathematics 113	3
		Military Science 102 (Men) or Elective (Women)	2
		Physics 107	1
	17		18

Second Year

Education 202	3	General Studies 248, Economics 230 or 231, or Political Science 101	3
General Studies 247	3	Mathematics 251	5
Mathematics 232	3	Military Science 202 (Men) or Elective (Women)	2
Military Science 201 (Men) or Elective (Women)	2	Physics 202	6
Physics 201	6	Psychology 211	3
	17		19

POLITICAL SCIENCE

College of Arts and Sciences

Recommended curriculum for a major in Political Science without right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
Foreign Language	3	Foreign Language	3
General Studies 101	3	General Studies 102	3
General Studies 161 or 162	3	General Studies 170, 176, or Geology 108	3
General Studies 180	1	General Studies 181	1
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Political Science 100	3	Political Science 101	3
	15		15

Second Year

English 211	3	English 212	3
Foreign Language or elective	3	Foreign Language or elective	3
General Studies 246	3	General Studies 247	3
General Studies 281	3	Military Science 202 (Men) or Elective (Women)	2
Military Science 201 (Men) or Elective (Women)	2	Political Science elective	3
Political Science elective	3	Elective	3
	17		17

POLITICAL SCIENCE

College of Arts and Sciences

Recommended curriculum for a major in Political Science with right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
Foreign Language	3	Foreign Language	3
General Studies 101	3	General Studies 102	3
General Studies 161 or 162	3	General Studies 170 or 176 or Geology 108	3
General Studies 180	1	General Studies 181	1
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Political Science 100	3	Political Science 101	3
	15		15

Second Year

English 211	3	Education 202	3
Foreign Language or elective	3	English 212	3
General Studies 246	3	Foreign Language or elective	3
General Studies 281	3	General Studies 247	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
Psychology 211	3	Political Science elective	3
	17		17

PSYCHOLOGY

College of Education

Recommended curriculum for a major in Psychology without right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
Anthropology 110	3	Foreign Language	3
Foreign Language	3	General Studies 102	3
General Studies 101	3	General Studies 162	3
General Studies 161	3	General Studies 181	1
General Studies 180	1	Mathematics 107	3
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
	15		15

Second Year

English 211	3	English 212	3
General Studies 176	3	General Studies 247	3
General Studies 246	3	General Studies 281	3
Military Science 201 (Men)		Military Science 202 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Psychology 211	3	Psychology 213	3
Elective	3	Elective	3
	17		17

RECREATION

College of Arts and Sciences

Recommended curriculum for a major in the Area of Recreation without right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	Drama 100	3
General Studies 140	3	General Studies 102	3
General Studies 161	3	General Studies 162	3
General Studies 180	1	General Studies 181	1
General Studies 281	3	Military Science 102 (Men)	
Military Science 101 (Men)		or	
or		Elective (Women)	2
Elective (Women)	2	Political Science 101	3
Recreation 100	2	Recreation 102	2
	17		17

Second Year

Art 200	3	English 212	3
English 211	3	General Studies 247	3
General Studies 176	3	Geology 108	3
General Studies 246	3	Military Science 202 (Men)	
Health 202	2	or	
Military Science 201 (Men)		Elective (Women)	2
or		Physical Education 216	2
Elective (Women)	2	Psychology 211	3
Physical Education 215	2	Recreation 201	3
	18		19

SOCIOLOGY

College of Arts and Sciences

Recommended curriculum for a major in Sociology without right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
Foreign Language	3	Foreign Language	3
General Studies 101	3	General Studies 102	3
General Studies 161	3	General Studies 162	3
General Studies 180	1	General Studies 181	1
Military Science 101 (Men)		Military Science 102 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Sociology 110	3	Political Science 100	3
	15		15

Second Year

English 211	3	Anthropology 230	3
General Studies 176	3	English 212	3
General Studies 246	3	General Studies 247	3
General Studies 281	3	General education mathematics or science elective	3
Military Science 201 (Men)		Military Science 202 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Sociology 231	3	Psychology 211	3
	17		17

SOCIOLOGY

College of Arts and Sciences

Recommended curriculum for a major in Sociology with right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
Foreign Language	3	Foreign Language	3
General Studies 101	3	General Studies 102	3
General Studies 161	3	General Studies 162	3
General Studies 180	1	General Studies 181	1
Military Science 101 (Men)		Military Science 101 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Sociology 110	3	Political Science 100	3
	15		15

Second Year

English 211	3	Education 202	3
General Studies 176	3	English 212	3
General Studies 246	3	General Studies 247	3
Military Science 201 (Men)		General Studies 281	3
or		General education mathematics or science elective	3
Elective (Women)	2	Military Science 202 (Men)	
Psychology 211	3	or	
Sociology 231	3	Elective (Women)	2
	17		17

SPEECH

College of Arts and Sciences

Recommended curriculum for a major in Speech (or Speech and Drama) without right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	Drama 100	3
General Studies 140	3	General Studies 102	3
General Studies 161 or 162	3	General Studies 170 or 176	3
General Studies 180	1	General Studies 181	1
Military Science 101 (Men)		General Studies 246	3
or		General Studies 281	3
Elective (Women)	2	Military Science 102 (Men)	
Speech 100	3	or	
Speech or Drama elective*	3	Elective (Women)	2
	18		18

Second Year

Drama Elective**	3	Art 200	3
English 211	3	English 212	3
General Studies 247	3	Military Science 202 (Men)	
Military Science 201 (Men)		or	
or		Elective (Women)	2
Elective (Women)	2	Political Science 300	3
Psychology 211	3	Speech or Drama elective***	3
Speech 240	3	Elective	3
	17		17

SPEECH

College of Arts and Sciences

Recommended curriculum for a major in Speech (or Speech and Drama) with right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	Drama 100	3
General Studies 140	3	General Studies 102	3
General Studies 161 or 162	3	General Studies 170 or 176	3
General Studies 180	1	General Studies 181	1
Military Science 101 (Men)		General Studies 246	3
or		General Studies 281	3
Elective (Women)	2	Military Science 102 (Men)	
Speech 100	3	or	
Speech or Drama elective*	3	Elective (Women)	2
	18		18

Second Year

English 211	3	Art 200	3
General Studies 247	3	Education 202	3
Military Science 201 (Men)		English 212	3
or		Military Science 202 (Men)	
Elective (Women)	2	or	
Psychology 211	3	Elective (Women)	2
Speech 240	3	Political Science 300	3
Drama elective**	3	Speech or Drama elective***	3
	17		17

*Speech 150, Speech 205, Drama 100, Drama 110, or Drama 130.

**The courses listed in the line above, Speech 200, 220, or the second course of a sequence begun earlier.

***Speech 200, 220, 300, 335, 340, Drama 210, and Drama 230.

RECOMMENDED CURRICULUM FOR UNDECIDED MAJORS

First Year

First Semester	Hours
Art 200, Foreign Language or Music 271	3
General Studies 101	3
General Studies 142	3
General Studies 161, 162 or Biology 111	3-4
General Studies 180	1
Military Science 101 (Men) or Elective (Women)	2
	15-16

Second Semester	Hours
Art 200, Foreign Language, or Music 271	3
Chemistry 111, General Studies 170 or 176 or Geology 108; or Mathematics 107	3-4
General Studies 102	3
General Studies 144 or 246	3
General Studies 181	1
Military Science 102 (Men) or Elective (Women)	2
	15-16

Second Year

English 209 or 211	3
General Studies 246 or 247	3
General Studies 281	3
General education mathematics or science	3-4
Military Science 201 (Men) or Elective (Women)	2
Elective	3
	17-18

English 210 or 212	3
General Studies 247 or 248	3
General education mathematics or science	3-4
Military Science 202 (Men) or Elective (Women)	2
Elective	6
	17-18

College of Applied Arts and Technology

Agriculture 107

Home Economics 112

Industrial Education 116

Industrial Technology 125

Law Enforcement 135

Nursing 140

Kentucky School of Crafts 140

COLLEGE OF APPLIED ARTS AND TECHNOLOGY

John D. Rowlett, Dean

The College of Applied Arts and Technology is composed of seven academic departments: Agriculture, Home Economics, Industrial Education, Industrial Technology, Nursing, Law Enforcement, and the Kentucky School of Crafts.

The Department of Agriculture administers two year programs designed to prepare technicians for agriculture related occupations. The Associate of Arts degree is awarded to students who successfully complete the prescribed programs. In addition, the department administers certain pre-professional and transfer curricula for students who plan to complete baccalaureate programs at other institutions.

The Department of Home Economics administers a baccalaureate program to prepare home economics teachers. The Bachelor of Science degree is awarded to students who successfully complete the prescribed program. Additional programs to prepare students for non-teaching positions are being developed.

The Department of Industrial Education offers programs to prepare teachers in industrial arts and vocational technical education. In addition, the department offers a program of study for the preparation of Manual Arts Therapists. These are baccalaureate level programs.

The Department of Industrial Technology administers two and four year programs for the preparation of technicians for industrial employment. The Associate of Arts degree is awarded to those who successfully complete the two year programs, and the Bachelor of Science degree is awarded those completing the four year programs.

The Department of Nursing offers a two year, Associate of Arts, Registered Nurse program. Students who successfully complete the program of study are eligible to write the State Board examination for registered nurses.

The Department of Law Enforcement administers four Associate of Arts (two year) programs and a single baccalaureate program. Opportunities are provided for a degree of specialization within the two year programs.

The Kentucky School of Crafts will offer on-campus and extension instruction beginning with the 1966-67 academic year. Curricula will be available in September of 1966.

AGRICULTURE

William A. Householder, Chairman

Eastern Kentucky University has included two year technical training programs because the rapidly changing labor structure in agriculture throughout Kentucky and the United States is placing increasing value on technically trained personnel. Three two-year programs will be offered during the 1966-67 school year.

Upon completion of the two year program the student will receive the associate degree in technical agriculture and he will qualify for a wide range of technical positions within his area of instruction. He may also elect to pursue a major in agriculture at the University of Kentucky or another college or university.

Because the term "agricultural technician" is relatively new, it is carefully defined here for the benefit of the prospective student. An agricultural technician is a worker located between the skilled worker and the professional in the job classification structure, in his work performance, and in his educational attainment. He possesses both the skill and ability to work independently or with minimal supervision from a professional in analyzing and interpreting information, diagnosing problems, making decisions, and making practical applications of theoretical knowledge in performing specific tasks in specialized fields as production, processing, distribution, or marketing of goods and services in agriculture. Primarily, he exercises cognitive skills, but he must also be able to supervise and perform manipulative skills.

Even though the two year technical student is in great demand in the labor market, he must first qualify by preparing himself in three major areas:

1. The technical content of a selected area in agriculture.
2. The basic principles of agriculture in general.
3. Personal improvement through the intellectual pursuit of general and business education.

The basic curriculum for each two year course of instruction is essentially the same with the exception that the student studies and receives work experience in his area of specialization.

AGRICULTURE

DAIRY SCIENCE AND TECHNOLOGY

Recommended curriculum for an Associate Degree

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	General Studies 102	3
Business 101	3	Industrial Arts 201	3
Agriculture 130	4	Agriculture 215	4
General Studies 180	1	Agriculture 270	5
Agriculture 125	4	General Studies 181	1
Military Science 101	2	Military Science 102	2
	17		18

Second Year

*General Studies 140	3	*General Studies 162	3
Accounting 125	3	Business 341	3
Agriculture 213	4	Agriculture 310	4
Agriculture 280	5	Agriculture 290	5
Military Science 201	2	Agriculture 260	1
		Military Science 202	2
	17		18

* Substitutions are possible

Total Credits 70

AGRICULTURE

ORNAMENTAL HORTICULTURE

Recommended curriculum for an Associate Degree

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	General Studies 102	3
Business 101	3	Industrial Technology 201	3
Agriculture 130	4	Agriculture 215	4
Agriculture 131	4	Agriculture 271	5
General Studies 180	1	General Studies 181	1
Military Science 101	2	Military Science 102	2
	17		18

Second Year

*General Studies 140	3	*General Studies 162	3
Accounting 125	3	Business 341	3
Agriculture 213	4	Agriculture 310	4
Agriculture 281	5	Agriculture 291	5
Military Science 201	2	Agriculture 260	1
		Military Science 202	2
	17		18

* Substitutions are possible

Total Credits 70

TWO YEAR CURRICULUM IN FARM MACHINERY AND EQUIPMENT

A two year farm machinery program is being planned. With the exception of the specialized farm machinery courses it will be essentially the same as the other technical agriculture programs.

TRANSFER CURRICULUM

The University of Kentucky and Eastern Kentucky University are cooperating in the preparation of vocational agriculture teachers and in providing other training in agriculture.

In accordance with this plan, Eastern Kentucky University will offer two years of the curriculum leading to the degree in agriculture at the University of Kentucky. Hours earned beyond the sophomore level may not be transferable. Upper division courses are offered for the convenience of students that plan to graduate from Eastern Kentucky University with a field or minor in agriculture.

All courses given at Eastern Kentucky University will constitute a part of the regular program of instruction of the College of Agriculture and Home Economics of the University of Kentucky and will carry both course and residence credit toward the degree of Bachelor of Science in Agriculture awarded by the College of Agriculture and Home Economics.

RECOMMENDED CURRICULUM FOR MAJORS IN AGRICULTURE WHO WISH TO TRANSFER IN TWO YEARS

First Year

First Semester	Hours	Second Semester	Hours
Agriculture 130	4	Agriculture 126	3
Agriculture 125	4	Agriculture 131	4
Biology 131	3	General Studies 102	3
General Studies 101	3	Mathematics 107	3
Military Science 101	2	Military Science 102	2
General Studies 180	1	General Studies 181	1
	17		16

Second Year

Agriculture 244	3	Agriculture 270	5
Agriculture 243	3	Agriculture 241	3
Chemistry 111	4	Chemistry 112	5
Economics 230	3	Military Science 202	2
Military Science 201	2	Speech 131	3
Elective	2		
	17		18

AGRICULTURE

Agriculture 125. (Formerly Agriculture 25.) Principles of Animal Science. (Formerly called Farm Livestock Production.) **Four hours.** I.

Importance and use of livestock products; present types; market classes and grades of beef cattle, sheep, swine, horses and mules; the origin, development and characteristics of the more important breeds.

Agriculture 126. (Formerly Agriculture 11.) Farm Poultry Production. **Three hours.** II.

Principles of poultry husbandry; breeds and poultry improvement; selection and culling; incubation and brooding; feeding, housing and disease control; marketing poultry products.

Agriculture 130. (Formerly called Introduction to Agronomy) Principles of Agronomy. **Four hours.** I.

This course touches very briefly upon the many broad areas of agronomy so that the student may better understand the relationship that exists between them. This will give a foundation of general information upon which the specialized courses in agriculture and soils may be built.

Agriculture 131. (Formerly Agriculture 12.) (Formerly called General Horticulture) Principles of Plant Propagation. **Four hours.** I.

An introductory course in the principles and techniques of plant reproduction, including soil-water-temperature-plant relationship, methods of propagation and growth habit, adaptations and uses.

Agriculture 200. Apiculture. **Three hours.** A.

The anatomy of the honey bee; the colony, location and equipment of the apiary; production of comb and extracting honey; diseases and enemies of bees; observation and manipulation of beekeeping equipment.

Agriculture 213. Principles of Power Mechanics. **Four hours.** I.

Study of the principles of power mechanics and engineering as applied to agricultural machines, equipment, mechanized farm systems and structures and an elementary analysis of these for efficient and economical agricultural production and processing.

Agriculture 215. (Formerly Agriculture 30 and 315.) (Formerly called Soils) Principles of Soils. **Four hours.** II.

Prerequisite: Two semesters of chemistry for students planning to transfer.

Soil origin, classification, and properties, soil conservation, soil microorganisms, organic matter, soil water, soil minerals, lime, commercial fertilizers, soil erosion, and soil management.

Agriculture 221. (Formerly Agriculture 31 and 321.) Principles of Animal Nutrition. **Four hours.** A.

Prerequisite: Chemistry 111.

Digestion, absorption, assimilation and utilization of nutrients by domestic animals; principal feeds, rations and nutritive ratios.

Agriculture 225. Livestock Judging. **Three hours.** A.

An evaluation of purebred and commercial dairy cattle, beef cattle, sheep and swine. Practice in writing and giving reasons orally.

Agriculture 241. (Formerly Agriculture 41 and 441.) Agricultural Economics. **Three hours.** A.

The problems of economics as applied to agriculture; a study of the agricultural industry from historic, geographic and economic approaches.

Agriculture 243. (Formerly Sociology 141.) Rural Sociology. **Three hours.** A.

Historical backgrounds; movements, resources, and problems of rural communities; rural-urban relationships; rural people; problems of rural youth; agriculture and its problems of adjustment; community organizations and institutions; adult education; public health; rural recreation; social welfare; community organization and local government; relationship of the school to other institutions and agencies of the rural community; location and use of educational materials and resources of the community; state and national policies for the improvement of rural society.

Agriculture 244. (Formerly Agriculture 20 and 211.) Elementary Farm Crops. **Three hours.** I.

A study of field crop production; pasture management, weed control; crop rotation; innoculation, tillage, and seed selection.

Agriculture 260. Job Placement. **One hour.** II.

Required of all two year students in their fourth semester. Job placement orientation, techniques of being interviewed, preparing bio-data sheet, writing letters of inquiry and investigating job potentials.

Agriculture 262. Home Landscape. **One hour.** I, II.

A consideration of the elementary principles of home landscape. Each student will develop a home landscape design of his own or some other home.

Agriculture 270. (Formerly Agriculture 223.) (Formerly called Farm Dairying) Farm Dairy Production. **Five hours.** II.

A study of the dairy cow and her requirements in meeting her potential milk production. The student will be concerned with the principles of milk production and he will be introduced to the basic practices of feeding, sanitation, housing, dairy cow selection and production records.

Agriculture 271. Nursery and Plant Propagation Techniques. **Five hours.** II.

In this course students learn the cultural practices of propagating and growing evergreen and deciduous trees and shrubs and hardy perennials to transplanting size, using structures and facilities not including the greenhouse. Students spend considerable time in the nursery.

Agriculture 280. Technical Management of Dairy Cattle. Five hours. I.

A continuation of Agriculture 270 with greater emphasis on herd management, feeding systems, sanitation and disease control, planning housing facilities, producing quality forages and pastures, herd improvement and other lesser management problems.

Agriculture 281. Greenhouse Operation and Management. **Five hours.** I.

This course teaches plant propagation and growing techniques in a greenhouse. The student also learns operation procedures and the economics of operating a greenhouse and making and using cold and hot frames.

Agriculture 290. Dairy Processing and Related Businesses. **Five hours.** II.

Marketing milk, milk sanitation and applied bacteriology, butterfat, testing, laboratory tests for various dairy products, dairy plant operations, artificial insemination, DHIA testing, operation of milk cooperates and other related business will be studied. Emphasis will be on both practices and managerial techniques.

Agriculture 291. Landscape Methods and Related Businesses. **Five hours.** II.

This course teaches the elements of design and the execution of the landscape architect plan. Additional emphasis will be placed on occupations related to ornamental horticulture including turf maintenance, specialized flower production, park and roadside management and industrial grounds management.

Agriculture 310. (Formerly Agriculture 32 and 345.) Principles of Farm Management. **Four hours.** II.

Prerequisites: Economics 230 and Agriculture 241.

Factors affecting the organization and management of farms; cost of production; profits; types of farming; soil management; cropping systems; livestock enterprises; farm labor; rental agreements; farm machinery and equipment; farm layout.

Agriculture 312. Advanced Crops: Forage Crops. **Three hours.** A.

Prerequisite: Agriculture 130.

A study of the practices and principles of forage crops, especially grasses and legumes suited to Kentucky farms.

Agriculture 324. (Formerly Agriculture 22 and 224.) Dairy Cattle Management. **Three hours.** A.

Prerequisites: Agriculture 125, and Agriculture 221. Restricted to non-technical students.

Dairy cattle breeds; judging; feeding; calf raising; pedigrees; production; testing; dairy barn construction; equipment.

Agriculture 327. (Formerly Agriculture 44 and 227.) **Beef Production. Three hours.** A.

Prerequisites: Agriculture 125 and Agriculture 221.

History and importance of the beef cattle industry; selection, breeding, feeding and management of beef cattle.

Agriculture 340. (Formerly Agriculture 440 and 240.) **Soil Conservation. Three hours.** A.

Conservation of soils and their fertility; erosion and control; soil conservation methods for individual farms.

Agriculture 380. (Formerly Agriculture 442.) **Marketing Farm Products. Three hours.** A.

Prerequisite: Agriculture 310.

A study of the problems involved in marketing farm produce; livestock markets; classes and functions of middlemen; grading and standardization; wholesaling and retailing; transportation and storage; financing; prices; speculation; cooperative markets.

HOME ECONOMICS

Marguerite C. Barra, Chairman

INTRODUCTION AND AIMS OF HOME ECONOMICS DEPARTMENT

The broad purpose of the Home Economics Department is to educate the individual for successful personal and family life and for a satisfying career in an expanding professional field. The curriculum is designed to build a liberal background and skills along with professional preparation.

Graduates of the Department can qualify for teaching vocational home economics in secondary schools of Kentucky as well as for other types of home economics employment.
(The first two years of this curriculum may be found in the Central University College section.)

Third Year

First Semester	Hours	Second Semester	Hours
Chemistry 112	5	Biology 219	3
Home Economics 301	3	Home Economics 306	3
Home Economics 302	3	Home Economics 330	3
Home Economics 350	3	Home Economics 366	4
Home Economics 322	3	Home Economics 305	3
		Education 315	2
	17		18

Fourth Year

Economics 230	3	Education 364	4
Home Economics 403	4	Education 463	10
Music 271	3	Home Economics 466	3
Sociology 231	3		
Home Economics 303	3		
	16		17

RECOMMENDED CURRICULUM FOR A MINOR IN HOME ECONOMICS

A student with a major and a minor in other departments may take the following courses for a minor in home economics; foods, 6 hours; clothing, 6 hours; house, 3 hours; family and child development, 3 hours.

HOME ECONOMICS

Home Economics 203. (Formerly Home Economics 20.) Garment Making. **Three hours.** I, II.

Clothing selection, fabrics, planning and construction. A study of factors that influence the selection of a college wardrobe. Fundamental construction techniques, use of commercial patterns, fittings and alterations. Lecture one hour and laboratory work.

Home Economics 204. Introduction to Foods and Nutrition. **Three hours.** I, II.

Nutritional properties of foods with emphasis on the conservation of these properties in food preparation.

Home Economics 206. (Formerly Home Economics 23.) Dressmaking. **Three hours.** I, II.

Prerequisite: Home Economics 203 or its equivalent.

Selection, construction and consumer education. Advanced problems in the selection, planning, construction techniques and problems affecting the consumer in relation to clothing. Lecture one hour and laboratory work.

Home Economics 208. Personal Relationships in the Home and Community. **Three hours.** I, II.

Personality development and personal problems in adjustment are studied. Consideration is given to individual adjustment to home, school, vocation, marriage, and community. Required of all sophomores in home economics. Open to non-majors in home economics.

Home Economics 211. Family Casework. **Three hours.** A

This course is designed to give the student an understanding of the psychological factors which affect the degree of acceptance by family members of a long convalescence or chronic illness in the home; of the family's responsibility in such cases and of healthy family attitude as contrasted with unhealthy family attitudes toward illness and infirmities.

Home Economics 215. Food Management. **Three hours.** I, II.

Prerequisite: Home Economics 204 or its equivalent.

The planning, preparing and serving of foods with emphasis on management of the nutritional cultural, economic and aesthetic factors involved in meeting the food needs of individuals and families.

Home Economics 231. (Formerly Health 22 and 231.) Health and Home Care of the Sick. **Two hours.** I, II.

The health of the family and simple procedures for the care of patients in the home are stressed.

Home Economics 301. (Formerly Home Economics 30.) Household Equipment. **Three** hours. I.

Standards for selecting and buying household equipment and small appliances. Providing for adequate electric and gas service in the home. Maintenance of household equipment and appliances.

Home Economics 302. Experimental Foods. **Three hours.** I, II.

Prerequisite: Home Economics 215; Chemistry 111 and 112b.

An experimental study of food from the physical and chemical approach. Individual oral and written presentations of current research problems.

Home Economics 303. Development of the Infant and Pre-School Child. **Three hours.** I, II.

Emphasis will be placed on the study of prenatal development and the behavior patterns of infancy and the pre-school child. The role of the home in providing the necessary climate for sound social and emotional growth will be studied through current research and contacts with parents. Laboratory experiences will be provided for study of the behavior of the pre-school child in group work and play.

Home Economics 304. (Formerly Home Economics 402.) Child and Adolescent Development. **Three hours.** A.

Prerequisites: Psychology 211; Education 315 or Home Economics 303.

Care necessary for physical, mental, emotional, and social development of the child through adolescence; observation of children.

Home Economics 305 (Formerly Home Economics 34.) Tailoring and Design. **Three hours. II.**

Prerequisite: Home Economics 203 and 206; Chemistry 111 and 112b.

A study of design in clothing and tailoring. Construction techniques in tailoring a suit or coat. Lecture one hour and laboratory work. This course planned for teacher education. The students prepare teaching materials for use in clothing classes.

Home Economics 306. Advanced Nutrition. **Three hours.** I, II.

Prerequisite: Biology 219, Chemistry 112b, Science 111.

Nutrition as it affects the individual, the family, and the community under varying conditions and circumstances. Current research in selected topics related to maternal and child nutrition and other nutritional problems of national and international scope.

Home Economics 307. The Family in the Home and the Community. **Three hours. I, II.**

Problems relative to marriage. Factors which contribute toward developing a well adjusted family; relation of the family in the community.

Home Economics 308. (Formerly Home Economics 37.) (Formerly called Advanced Textiles) Textiles. **Three hours.** I.

Prerequisite: Chemistry 111 and 112b.

Fundamentals of textiles as related to the problems of the consumer. Two hours lecture and two hours laboratory per week.

Home Economics 309. Principles of Nutrition. **Three hours.** A.

This course includes non-technical nutritional information. Emphasis is placed on the use of nutritional information for promoting a high degree of physical fitness. Study is made of menus, family food budgets, and recent trends in American dietary habits.

Home Economics 310. Nutrition for the Elementary Teacher. **Two hours.** I, II.

The fundamentals of nutrition. The importance of good nutrition to the child. Ways to interest the child in good nutrition. Results of good nutrition.

Home Economics 311. Interpersonal Relationships and the World Family. **Three hours.** A.

Prerequisite: Home Economics 307.

Students will be able to concentrate on and study intensively specific areas of world family life. Interpersonal relationships and the world family will be the focus. Group projects, individual study, panel discussions, and conferences will be used in addition to extensive readings of research and other literature.

Home Economics 312. Creative Pattern Design. **Two hours.** I.

Prerequisite: Home Economics 203-206.

Principles of pattern making based on flat pattern methods. Studio projects. Original design with emphasis upon appropriate line, color, and texture for the individual executed by means of flat pattern methods. Course is designed to develop versatility in the use of commercial patterns and skill in fittings. One hour lecture and two hours laboratory.

Home Economics 322. (Formerly Home Economics 222.) Interior Decoration. **Three hours.** I, II.

Prerequisite: Art 117.

Decoration and furnishing for the interior of the house. Laboratory work in refinishing of furniture, slip covers and drapes.

Home Economics 330. Factors Affecting Home Management. **Three hours.** II.

An appreciation of the factors which influence home and family living: a study of management problems relating to: time, energy, money, equipment, as well as personal development in relationships and hospitality.

Home Economics 350. (Formerly Home Economics 250.) The House. **Three hours.** I, II.

Architecture: house plans: landscaping; materials suitable for building a home; financing a home.

Home Economics 366. (Formerly Education 304.) Vocational Home Economics Education. **Four hours.** II.

Prerequisite: Education 202 and Psychology 211.

This course is designed to present an introduction to home economics education in current trends and the role of the home economics teacher in the school and community. It includes the home economics teacher in the adult homemaking program and a study of the promotion, organization and administration of adult programs.

Home Economics 401. The Nursery School. **Three hours.** A.

A study of the philosophy and objectives of the nursery school experience for children with emphasis on day care for children of working mothers. The interaction of parents, children, and teachers will be an important consideration. This course is designed for those interested in directing programs in public day care centers or private nursery schools.

Home Economics 403. Home Management Residence. **Four hours.** I, II.

Prerequisite: Home Economics 302, 306 and 330.

Improvement of skills in the management of time, money, and energy; meal planning; food buying; preparation and serving of meals; cleaning; laundering. Family relationships, etiquette, and hospitality are emphasized. Reservations for appointment to live in the Turley House should be made several weeks prior to the beginning of the semester.

Home Economics 404. (Formerly Home Economics 338.) Current Trends in Child Development. **Three hours.** A.

Study of current concepts and trends in the study of child development. Includes recent research concerning problems in child growth and development, and methods of presenting child development to high school groups.

Home Economics 405. Seminar in Family Life. **Three hours.** A.

Prerequisite: Home Economics 307.

Students will be able to concentrate their interests in an intensive study of specific areas of family life. The main focus will be on the family and its interpersonal relationships. Group projects and study, panel discussions, and conferences will be used in this course.

Home Economics 406. Newer Knowledge of Nutrition. **Three hours.** A.

Prerequisite: Home Economics 306.

Study of latest research in nutrition and diets in relation to diseases.

Home Economics 407. Organization and Administration of the Nursery School. **Three hours.** A.

A study of the history of nursery education and the organization and administration of housing, equipment, records, and parent cooperation. This course is designed for those interested in directing programs in public day care centers or private nursery schools or in college laboratory schools.

Home Economics 455. Advanced Costume and Design. **Three hours.** II.

Prerequisite: Art 117; Home Economics 203 and 206.

The application of art principles in color and line in designing and construction of garments.

Home Economics 456a. Special Problems in Home Economics. **One hour.** A.

The student chooses a problem and works under the supervision of the instructor in the field of the problem.

Home Economics 456b. Special Problems in Home Economics. **One hour.** A.

Continuation of Home Economics 456a.

Home Economics 456c. Special Problems in Home Economics. **One hour.** A.

A continuation of Home Economics 456b.

Home Economics 466. (Formerly Education 466.) Advanced Methods in Teaching Home Economics Education. **Three hours.** I, II.

Prerequisite: Approval of head of department.

This course provides an overview of student teaching including purpose and evaluation. An opportunity is provided for experiences in curriculum planning, use of instructional materials, preparation of a budget, record keeping, working with the Future Homemakers of America. Principles of housing are applied to recognition of desirable space and equipment for a home economics department.

GRADUATE DIVISION COURSES

Home Economics 600. (Formerly Home Economics 500.) Workshop in Family Life Education. **Three hours.** A.

A workshop designed to provide the professional person with additional background in the family life area. Intensive study of the family life area and its problems will be done. A study of instructional materials and instructional techniques will be used. Role playing, film studies, group discussions, library work, individual conferences will be utilized by the teaching staff.

Home Economics 602. (Formerly Home Economics 502.) Problems in Family Life. **Three hours.** A.

Students have the opportunity to study the family in the American culture as it has developed from early tradition. Origins of the family concept with its many customs will be investigated. Emphasis will be placed on the interpersonal relationships of the family and family problems.

Home Economics 603. (Formerly Home Economics 503.) Advanced Seminar in Family Life. **Three hours.** A.

Each student will be allowed to study a specific area of family life in an intensive manner. This study will be shared in group discussions and panel forums with the class. Emphasis will be on research.

Home Economics 604. (Formerly Home Economics 504.) Psychology of Family Relations. **Three hours.** A.

A study of the psychological factors of family living, and the dynamics of their interaction in all phases of family living. Emphasis is placed on role concepts, effects of various relationships within the family, the role of finance, and the problems of aging. (Also Psychology 604.)

INDUSTRIAL EDUCATION

Ralph W. Whalin, Chairman

The primary function of the Industrial Education Department is to prepare teachers of industrially oriented subjects for secondary and vocational-technical schools. Another function is to prepare personnel to staff the Manual Arts Therapy positions in the hospitals of the Veterans Administration.

The Industrial Arts Comprehensive Area Curriculum has as its purpose the preparation of general industrial arts teachers for schools offering broad diversified programs.

The Industrial Arts Specialized Area Curriculum has as its purpose the preparation of teachers for schools where technician-teachers are desired who possess greater depth in their respective areas.

The purpose of the first major in Industrial Education is to give the future industrial arts teacher an opportunity to prepare to teach in another subject matter field.

The Manual Arts Therapy Curriculum has as its purpose the preparation of therapists with a broad background in industrial education with emphasis on the crafts.

INDUSTRIAL EDUCATION INDUSTRIAL ARTS COMPREHENSIVE AREA CURRICULUM

Recommended area curriculum for majors in Industrial Education with right of teaching certificate. The first two years of this curriculum may be found in the Central University College section

Third Year

First Semester	Hours	Second Semester	Hours
Art 200	3	Education 316	2
Education 315	2	Industrial Education 326	3
Industrial Education 233	2	Industrial Education 343	3
Industrial Education 311	3	Industrial Education 353	3
Industrial Education 372	3	Industrial Education 382	3
Social Science Elective	3	Social Science Elective	3
	16		17

Fourth Year

Art 390, 391, or 392	3	Education 364	4
Biology 401 or 402	3	Education 463	10
Industrial Education 394	3	Industrial Education 566	3
Industrial Education 467	3		
Science Elective	3		
	15		17

Industrial Education courses are to be selected to complete a total of 54 semester hours.

Recommended Curriculum for a First Major in Industrial Education

A student with a second major or minor in another department may take the following courses for a first major in Industrial Education: Industrial Education 130, 141, 180, 233, 242, 281, 292, 351, 394, 566, and elective to total 36 hours.

INDUSTRIAL EDUCATION INDUSTRIAL ARTS SPECIALIZED AREA CURRICULUM

Recommended curriculum for majors in Industrial Education with right of teaching certificate. The first two years of this curriculum may be found in the Central University College section

Third Year

First Semester	Hours	Second Semester	Hours
Art 200	3	Biology 401 or 402	3
Education 315	2	Education 316	2
Industrial Education 233	2	Industrial Education 372	3
Industrial Education 311	3	Industrial Education 353	3
Industrial Education 351	3	*Industrial Education Elective	2
Social Science Elective	3	Social Science Elective	3
	16		16

Fourth Year

Art 490, 391, or 392	3	Education 364	4
Industrial Education 467	3	Education 463	10
*Industrial Education Elec.	10	Industrial Education 566	3
	16		17

* To be elected from one major area.

A minimum of fifteen semester hours is required in one subject matter area in Industrial Education.

Industrial Education courses are to be elected to complete a total of 51 semester hours.

INDUSTRIAL EDUCATION MANUAL ARTS THERAPY

Third Year

First Semester	Hours	Second Semester	Hours
*Art Elective	3	Biology 225	3
*Science Elective	3	Education 316	2
Education 315	2	Industrial Education 328	3
Industrial Education 326	3	Industrial Education 353	3
Industrial Education 311	3	Industrial Education Elec. (382, 467, 343, 233)	3
*Social Science Elective	3	*Social Science Elective	3
	17		17

Fourth Year

*Art Elective	3	Education 364	4
Industrial Education 312	3	**Education 463	10
Industrial Education 394	3	Industrial Education 566	3
Industrial Education 372	3		
Physical Education 320	2		
Psychology 308	3		
	17		17

* Selected with approval of advisor to meet general education requirements.

** Includes minimum of 240 hours clinical experience in Veterans Administration Hospital.

INDUSTRIAL EDUCATION

Industrial Education 130. (Formerly Industrial Arts 130.) Design Orientation. **One hour.** I, II.

An introduction to design theory and practice. Emphasis on using contemporary tools, materials, and technical processes in solving design problems.

***Industrial Education 141.** (Formerly Industrial Arts 141.) Elementary Woodwork. **Three hours.** I, II.

Basic instruction in the use of common hand tools; basic machine operations; problems in wood construction; woodturning; related technical information; finishing and characteristics of common hard and soft woods.

***Industrial Education 180.** (Formerly Industrials Arts 180.) General Metalwork I. **Three hours.** I, II.

Basic hand and machine operations and related information in sheet metal, bench metal, art metal, arc and oxyacetylene welding; projects and problems in each area of activity.

***Industrial Education 191.** (Formerly Industrial Arts 13 and 191.) Technical Drawing I. **Three hours.** I, II.

Basic technical drawing involving sketching, lettering, orthographic projection, pictorial representation, drafting techniques, tracing, and reproduction of drawings.

***Industrial Education 201.** Applied Mathematics in Technology. **Three hours.** A.

A course in mathematics involving an intensive study of applied algebra, geometry, and trigonometry with emphasis on the application of mathematics in the solution of technical problems.

Industrial Education 233. (Formerly Industrial Arts 15 and 233.) Industrial Arts Design. **Two hours.** I, II.

Prerequisite: Industrial Education 191.

Study and application of the principles of three-dimensional design related to various media. Emphasis placed on experimentation and problem-solving in developing design solutions. Design and construction of projects involving both hand and mass production processes.

Industrial Education 241. (Formerly Industrial Arts 241.) General Woodworking. **Two hours.** I.

Basic operations and information units in hand and machine woodwork; common woods; care and maintenance of tools; finishing of woods; joinery and construction problems. Emphasis on woodworking as an avocation.

***Industrial Education 242.** (Formerly Industrial Arts 21 and 242.) Intermediate Woodwork **Three hours.** A.

Prerequisite: Industrial Education 141.

Advanced woodworking operations; instruction in the operation of woodworking machine; care and sharpening of tools; related technical information; construction and finishing of projects.

Industrial Education 243. (Formerly Industrial Arts 243.) General Woodworking II. **Two hours.** II.

Additional operations in machine and hand woodwork; joinery; related information; construction problems; finishing techniques and maintenance of equipment. Emphasis on woodworking as an avocation.

* Indicates course cross-numbered with Industrial Technology.

Industrial Education 249. (Formerly Industrial Arts 14 and 249.) Wood and Metal Finishing. **Two hours.** A.

Prerequisite: Industrial Education 141.

Characteristics of woods and metals; preparation of surfaces for finishing, staining, sealing, and filling; use of varnish, shellac, penetrating oil, and lacquers; art metal finishing; finishing abrasives and rubbing; refinishing of furniture.

***Industral Education 281.** (Formerly Industrial Arts 281.) General Metalwork II. **Three hours.** I, II.

Basic hand tool and machine operations; foundry; forging; heat treating; machine shop projects and problems; related information in each area of activity.

Industrial Education 283. (Formerly Industrial Arts 27 and 293.) Arc and Oxyacetylene Welding. **Three hours.** A.

Manipulative processes and related information basic to successful arc, oxyacetylene, and tungsten inert gas welding; metallurgy of welding; physical testing of weldments.

***Industrial Education 292.** (Formerly Industrial Arts 20 and 292.) Technical Drawing II. **Three hours.** I, II.

Prerequisite: Industrial Education 191.

Preparation of detail and assembly drawings; production illustrations; screw threads and fasteners; shop processes; dimetric projections; secondary auxiliaries; reproduction processes and materials.

***Industrial Education 293.** Formerly Industrial Arts 23 and 293.) Technical Drawing III. **Three hours.** A.

Prerequisite: Industrial Education 191.

Advanced drafting techniques with special emphasis on map drafting and sheet metal layout.

*** Industrial Education 301.** (Formerly Industrial Arts 301.) Industrial Plastics. **Three hours.** A.

A course designed to introduce students to the methods, techniques, processes and materials used in the plastics industries; technical information and operations in plastics; operation of plastics production equipment; mold design, including injection and compression molding; extrusion and problems in production and quality control.

***Industrial Education 311.** (Formerly Industrial Arts 311.) Graphic Arts I. **Three hours.** I, II.

A course in general graphic arts with emphasis on hand composition, elementary presswork, silkscreen principles, linoleum block printing and bookbinding.

Industrial Education 312. (Formerly Industrial Arts 312.) Graphic Arts II. **Three hours.** I, II.

An advanced course in graphic arts with emphasis on automatic machine printing; production techniques; photography; and off-set lithography.

Industrial Education 322. (Formerly Industrial Arts 16, 222, and 322.) Industrial Arts for Elementary Teachers. **Three hours.** I, II.

Appropriate projects and media to provide enrichment for the elementary school subjects; instruction in the use of basic hand tools employed in the completion of correlated units of work.

Industrial Education 323. (Formerly Industrial Arts 32 and 323.) Weaving and Upholstery. **Two hours.** A.

Prerequisite: Industrial Education 141.

Upholstering plain surfaces and frame structures; upholstering with springs; renovation; caning; split and fiber weaving; materials; tools and tool processes.

*Indicates course cross-numbered with Industrial Technology.

Industrial Education 326. (Formerly Industrial Arts 29 and 326.) Crafts I. **Three hours.** A.

An introduction to various crafts media; leather, art metal enameling; castolite; wood carving; the making of archery equipment; utilization of material applicable for playground use, community centers, and summer camps.

Industrial Education 328. (Formerly Industrial Arts 328.) Crafts II. **Three hours.** A.

An introduction to lapidary and jewelry work; cabochon cutting; grinding and polishing; faceting; design and construction of costume jewelry using silver, copper, and gold; centrifugal casting using the lost wax process.

Industrial Education 343. (Formerly Industrial Arts 31a and 343.) Advanced Woodwork. I. **Three hours.** A.

Prerequisite: Industrial Education 242.

Additional practice in furniture construction involving skill in the use of machines and hand tools; joinery; bending and laminating wood; finishing; wood technology; maintenance of equipment.

Industrial Education 344. (Formerly Industrial Arts 33 and 344.) Wood Turning. **Three hours.** A.

Prerequisite: Industrial Education 242.

Common wood turning problems; sharpening tools; operations in spindle, chuck, and faceplate turning; finishing and polishing.

Industrial Education 345. (Formerly Industrial Arts 31b and 345.) Advanced Woodwork II. **Three hours.** A.

Prerequisite: Industrial Education 343.

Continuation of Industrial Education 343 with increased emphasis on craftsmanship; the development of a high degree of skill in furniture construction and knowledge of related information.

***Industrial Education 351.** (Formerly Industrial Arts 351.) Fundamentals of Applied Electricity. **Three hours.** I, II.

Principles of static and current electricity; measures of electricity; heat, light, and power applied to the planning and construction of electrical installations.

Industrial Education 352. (Formerly Industrial Arts 352.) Electrical Power and Motor Repair. **Three hours.** A.

Generation and distribution of electricity; power distribution systems; maintenance and repair of electrical motors.

***Industrial Education 353.** (Formerly Industrial Arts 353.) Introduction to Electronics. (Formerly called Introduction to Radio and Electronics.) **Three hours.** A.

Prerequisite: Industrial Education 351.

Fundamentals of vacuum tubes; semiconductor devices, AM radio receivers, and servicing techniques.

***Industrial Education 354.** (Formerly Industrial Arts 354.) Advanced Electronics. **Three hours.** A.

Principles of superheterodyne receivers; frequency modulation; solid state devices; transmitters; electronics equipment servicing techniques.

***Industrial Education 372.** (Formerly Industrial Arts 372.) Power Mechanics I. **Three hours.** I, II.

Prerequisite: Industrial Education 351.

Principles of power sources and basic mechanisms. Disassembly, inspection, measurement, adjustment, and tune-up of the two and four cycle small gasoline engine.

*Indicates course cross-numbered with Industrial Technology.

***Industrial Education 373.** (Formerly Industrial Arts 373.) Power Mechanics II. **Three hours.** A.

Study of the multi-cylinder engine; fuels and fuel systems, lubrication, cooling, ignition, tests, tune-up, adjustment, and minor repair.

***Industrial Education 382.** (Formerly Industrial Arts 34 and 382.) Machine Shop Practice I. **Three hours.** A.

Projects and problems involving machine operations on the lathe, bench work; blue print reading; precision measurement; related technical information.

Industrial Education 383. (Formerly Industrial Arts 35 and 383.) Art Metalwork. **Three hours.** A.

Techniques of design; lay-out, raising, planishing, chasing, etching, spinning, silver soldering, engraving enameling, anodizing and electro-plating.

***Industrial Education 385.** (Formerly Industrial Arts 25 and 385.) Sheet Metalwork. **Three hours.** A.

Prerequisite: Industrial Education 180 and 281.

Care and use of common sheet metal tools and machines; lay-outs; templates; problems involving soldering, seaming, punching, riveting, forming and spot welding.

***Industrial Education 394.** (Formerly Industrial Arts 37 and 394.) Architectural Drawing I. (Formerly called Elementary Architectural Drawing.) **Three hours.** I, II.

Prerequisite: Industrial Education 191.

Basic principles of house planning; styles of home architecture; comparative study of building materials; the preparation of a complete set of plans and specifications for a small home.

***Industrial Education 395.**) (Formerly Industrial Arts 395.) Descriptive Geometry. **Three hours.** A.

Application of the theory of orthographic projection to the graphical representation and solution of three-dimensional problems. (Same as Mathematics 395)

***Industrial Education 411.** (Formerly Industrial Arts 411.) Graphic Arts III. **Three hours.** A.

Advanced photography; off-set lithography; graphic arts materials and processes; printing management; current trends in the graphic arts industry.

***Industrial Education 451.** Industrial Electronics I. **Three hours.** A.

Prerequisite: Industrial Education 353.

Principles of timing, control circuitry, transducers, polyphase system, and gaseous tubes as applied to industrial and commercial installations.

***Industrial Education 452.** Industrial Electronics II. **Three hours.** A.

Prerequisite: Industrial Education 451.

Applications of industrial control circuitry; generation of electricity; power distribution systems; maintenance and repair of electrical devices.

***Industrial Education 454.** (Formerly Industrial Arts 454.) Communications Electronics I. (Formerly called Advanced Radio and Electronics I.) **Three hours.** A.

Prerequisite: Industrial Education 353.

Advanced radio communication receiving principles; quality audio reproducing devices; transmitter procedures; transmitting antennas; communications systems; and electronics servicing techniques.

***Industrial Education 455.** (Formerly Industrial Arts 455.) Communications Electronics II. (Formerly called Principles of Television.) **Three hours.** A.

Prerequisite: Industrial Education 454.

Principles of television; antenna theory and installation; closed circuit television operation; and television servicing techniques.

***Indicates course cross-numbered with Industrial Technology.**

Industrial Education 467. (Formerly Industrial Arts 467.) Problems and Practices of the General Shop. **Three hours.** A.

The planning and organization of physical laboratory facilities with emphasis on the comprehensive general shop and the general unit shop. Preparation of instructional materials; instructional techniques; development of exemplary projects; development and use of visual aids.

***Industrial Education 487.** (Formerly Industrial Arts 44 and 487.) Machine Tool Processes II. **Three hours.** A.

Prerequisite: Industrial Education 382.

Practice and study in advanced machine tool operations and tool making; heat treating of metals; related technical studies and metrology.

***Industrial Education 488.** (Formerly Industrial Arts 45 and 488.) Machine Tool Processes III. **Three hours.** A.

Prerequisite: Industrial Education 487.

Practice and study in advanced machine tool operations and tool making; heat treating of metals; related technical studies and metrology.

***Industrial Education 489.** (Formerly Industrial Arts 489.) Characteristics and Maintenance of Machine Tools. **Two hours.** A.

Prerequisite: Industrial Education 487.

A study of machine design and construction; installing; servicing, powering and rebuilding machine tools.

***Industrial Education 492.** (Formerly Industrial Arts 492.) Technical Drawing IV. **Three hours.** A.

Prerequisite: Industrial Education 292.

Advanced machine drafting dealing with detail and assembly drawing, patent drawing, production illustrations, and tool design.

***Industrial Education 496.** (Formerly Industrial Arts 47 and 496). Architectural Drawing II. **Three hours.** A.

Prerequisite: Industrial Education 394.

Preparation of complete plans and specifications for small commercial and large residential buildings; emphasis on modern methods and materials utilized in the building industry; illustrative rendering; structural modeling.

***Industrial Education 501.** (Formerly Industrial Arts 401.) Special Problems in Industrial Education. (Formerly called Special Problems in Industrial Arts.) **Three hours.** I, II.

A course for exceptional undergraduates involving independent study and research related to problems of a theoretical and/or practical nature.

***Industrial Education 511.** (Formerly called Graphic Arts III) Advanced Technical Problems in Graphic Arts. **Two-Six hours.** I, II.

Technical instruction in the graphic arts field. Recent developments, advanced technical and experimental problems and preparation of technical reports in graphic arts.

***Industrial Education 533.** (Formerly Industrial Arts 433.) (Formerly called Workshop in Industrial Arts.) Workshop in Industrial Education. **Four hours.** A.

533a Design; 533b Graphic Arts; 533c Plastics; 533d Power Mechanics; 533e Electronics ;533f Wood Technology; 533g Metals; 533h Crafts; 533i Professional. (Formerly Industrial Arts 433a, 433b, 433c, 433d, 433e, 433f, 433g, 433h, 433i.)

***Industrial Education 541.** Advanced Technical Problems in Woodworking. **Two-Six hours.** I, II.

Technical instruction in the woodworking field. Recent developments, advanced technical and experimental problems, and preparation of technical reports in woodworking.

*Indicates course cross-numbered with Industrial Technology.

Industrial Education 544. (Formerly Industrial Arts 41 and 444.) Machine Woodworking. **Two hours.** A.

Prerequisite: Industrial Education 242.

Special machine operations; repairing and servicing power woodworking machinery.

***Industrial Education 551.** Advanced Technical Problems in Electricity-Electronics. **Two-Six hours.** I, II.

Technical instruction in the electricity-electronics field. Recent developments, advanced technical and experimental problems, and preparation of technical reports in electricity-electronics.

Industrial Education 563. (Formerly Industrial Arts 363.) Shop Planning and Equipment. **Two hours.** A.

Types of industrial education laboratories; criteria to observe in planning; specifications, sources and procedures in purchasing equipment; selecting, purchasing, and dispensing of supplies.

Industrial Education 564. (Formerly Industrial Arts 42 and 464.) History and Philosophy of Industrial Education. **Two hours.** A.

The history of industrial education from its early beginning to the present; the contributions of leaders; movements in the development of industrial and vocational education; modern concepts of industrial education.

Industrial Education 566. (Formerly Industrial Arts 46 and 466.) Teaching of Industrial Arts. **Three hours.** I, II.

The function and objectives of industrial arts; the industrial arts curriculum; methods of presentation; instructional aids; planning, equipping and organizing the laboratory; instructional materials; demonstration lessons; evaluation of student achievement.

***Industrial Education 571.** Advanced Technical Problems in Power Mechanics. **Two-Six hours.** I, II

Technical instruction in the power mechanics field. Recent developments, advanced technical and experimental problems, and preparation of technical reports in power mechanics.

***Industrial Education 581.** Advanced Technical Problems in Metalworking. **Two-Six hours.** I, II.

Technical instruction in the metalworking field. Recent developments, advanced technical and experimental problems, and preparation of technical reports in metalworking.

***Industrial Education 591.** Advanced Technical Problems in Drafting. **Two-Six hours.** I, II.

Technical instruction in the drafting field. Recent developments, advanced technical and experimental problems, and preparation of technical reports in drafting.

GRADUATE DIVISION COURSES

Industrial Education 662. (Formerly Industrial Arts 562.) Philosophy of the Practical Arts and Vocational Education. **Three hours.** II.

Background, purpose, and relationship of the practical arts and current to philosophies of the practical arts and vocational education; current education; current legislation for the practical arts and vocational education and the state plan.

Industrial Education 664. (Formerly Industrial Arts 564.) (Formerly called Special Problems in Industrial Arts) Special Problems in Industrial Education. **One-Six hours.** I, II.

Problems of particular value to the teacher in the field, both of a practical and of a research nature, will be pursued by the student and developed through conferences and activities directed by the staff.

*Indicates course cross-numbered with Industrial Technology.

Industrial Education 665. (Formerly Industrial Arts 565.) (**Formerly** called Curriculum Practices and Trends in Industrial Arts) Curriculum Practices and Trends in Industrial Education. **Three hours. I.**

Current concepts and trends in industrial education; principles underlying curriculum construction and development; long range planning for improvement of programs.

Industrial Education 666. (Formerly Industrial Arts 566.) (Formerly **called** Seminar in Industrial Arts) Seminar in Industrial Education. **Three hours.** I.

A course for the graduate student in industrial education. Current problems and issues in the total field of industrial education will be studied with an emphasis placed on identifying their philosophical and/or psychological dimensions. Research techniques appropriate for industrial education with an emphasis on experimental design and statistical procedures of analysis. Each student will be expected to plan and complete a minor research paper, and to present his findings to the seminar.

Industrial Education 667. (Formerly Industrial Arts 567.) (Formerly called Thesis Research in Industrial Arts) Thesis Research in Industrial Education. **Six hours.** I, II.

Students preparing thesis are expected to register for three hours of thesis research in each of two semesters.

Industrial Education 668. (Formerly Industrial Arts 568.) Advanced Design. **Three hours.** II.

An advanced course in design emphasizing problem-solving and experimentation with industrial media.

INDUSTRIAL TECHNOLOGY

William E. Sexton, Chairman

The primary function of the Industrial Technology Department is to prepare persons for entrance into technical occupations. Curricula are designed for those who do not wish to teach, but who desire to secure gainful employment in industry.

The Industrial Technology Curriculum combines a broad and balanced technical program with a sound foundation in mathematics, natural sciences, business organization and management, humanities, social sciences, and communications in order to prepare the individual to cope with a wide range of industrial problems.

A first major, second major, or minor in Industrial Technology enables an individual to complement specialized technical preparation in a specific subject matter area with extensive preparation in business organization and management, mathematics, or the sciences.

The two year curricula, leading to an Associate Degree, are designed for students who wish to prepare for gainful employment in certain industrial occupational areas in less than four years. Emphasis in each curriculum is placed on specialized technical preparation. Courses included in each program may be later credited toward a Bachelor of Science Degree.

*Indicates course cross-numbered with Industrial Technology.

INDUSTRIAL TECHNOLOGY
INDUSTRIAL TECHNOLOGY CURRICULUM

Recommended curriculum in the area of Industrial Technology without right of teaching certificate for those planning to secure employment in industry. The first two years of this curriculum may be found in the Central University College section

Third Year

Mathematics 232	3	English 210 or 212	3
Art 200	3	*Restrictive Social Science Elective	3
Economics 230	3	Industrial Technology 353	3
Industrial Technology 351	3	***Industrial Technology Elective	6
Industrial Technology 372	3		
	15		15

Fourth Year

**Restrictive Art Elective	3	***Elective	8
Biology 401 or 402	3	***Industrial Technology Elective	7
***Industrial Technology Elective	10		
	16		15

Thirty semester hours should be completed in two of the following departmental areas: metals, drawing, electricity-electronics, and graphic arts.

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*Restrictive Social Science Elective will require that students select three hours from the following: Economics 231, Geography 330 or 447, Political Science 300.

**Restrictive Art Elective will require that students select three hours from Art 390, 391, or 392.

***A minimum of twenty-two hours must be selected from Upper Division Courses.

Recommended Curriculum for a First Major in Industrial Technology* (without right of teaching certificate)

A student with a second major or a minor in Business, Mathematics, or a Science may take the following courses for a first major in Industrial Technology: Industrial Technology 191, 311, 351, 372, plus the required courses in one area of specialization as follows:

Drafting: Industrial Technology 281, 292, 394, 395, 492, 496.

Electricity-Electronics with emphasis in:

Communications: Industrial Technology 180, 353, 454, 455, 551 (6 hours)

Industrial Electronics: Industrial Technology 180, 352, 353, 451, 452, 551 (3 hours)

Metals: Industrial Technology 281, 283, 292, 382, 487, 488.

Graphic Arts: Industrial Technology 180, 312, 401, 411, 511 (6 hours)

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*Students planning to follow this curriculum should consult with the head of the Industrial Technology Department.

Recommended Curriculum for a Second Major or Minor in Industrial Technology*
(without right of teaching certificate)

A student with a first major or minor in Business, Mathematics, or a Science may take the following courses for a second major or minor in Industrial Technology:

With emphasis in Drafting:
Industrial Technology 191, 281, 292, 394, 395, 471, 492, 496.

With emphasis in Communications Electronics:
Industrial Technology 180, 191, 351, 353, 454, 455, 551 (6 hours).

With emphasis in Industrial Electronics:
Industrial Technology 180, 191, 351, 352, 353, 472, 451, 452.

With emphasis in Metals:
Industrial Technology 191, 281, 283, 292, 351, 382, 487, 488.

With emphasis in Graphic Arts:
Industrial Technology 191, 292, 311, 312, 351, 411, 511 (6 hours).

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*Students planning to follow this curriculum should consult with the head of the Industrial Technology Department.

INDUSTRIAL TECHNOLOGY

DRAFTING AND DESIGN TECHNOLOGY

Recommended curriculum with a major in Drafting and Design Technology leading to an Associate Degree

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	General Studies 102	3
Industrial Technology 191	3	Industrial Technology 292	3
Industrial Technology 281	3	Industrial Technology 294	3
Military Science 101	2	Military Science 102	2
General Studies 180	1	General Studies 181	1
Mathematics 107	3	Mathematics 113	3
	15		15

Second Year

Economics 230	3	Accounting 125	3
Industrial Technology 296	3	Industrial Technology 293	3
Industrial Technology 395	3	Industrial Technology 295	3
Military Science 201	2	Military Science 202	2
Art 117	3	Physics 132	5
Physics 131	5		
	19		16

DRAFTING TECHNOLOGY

Recommended curriculum with a major in Drafting Technology leading to an Associate Degree

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	General Studies 102	3
Industrial Technology 191	3	Industrial Technology 292	3
Industrial Technology 281	3	Industrial Technology 294	3
Military Science 101	2	Military Science 102	2
General Studies 180	1	General Studies 181	1
General Studies 176	3	General Studies 170	3
	15		15

Second Year

General Studies 140	3	Accounting 125	3
Industrial Technology 296	3	General Studies 144	3
Industrial Technology 395	3	Industrial Technology 293	3
Industrial Technology 201	3	Industrial Technology 295	3
Military Science 201	2	Art 217	3
Art 117	3	Military Science 202	2
	17		17

ELECTRONICS TECHNOLOGY

Recommended curriculum with a major in Electronics Technology leading to an Associate Degree

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	General Studies 102	3
Industrial Technology 151	3	Accounting 125	3
Industrial Technology 191	3	Industrial Technology 252	3
Mathematics 107	3	Industrial Technology 253	3
Military Science 101	2	Mathematics 113	3
General Studies 180	1	Military Science 102	2
		General Studies 181	1
	15		18

Second Year

Economics 230	3	Business 171	3
Industrial Technology 354	3	Industrial Technology 355	5
Industrial Technology Elective	3	Industrial Technology 372	3
Military Science 201	2	Military Science 202	2
Physics 131	5	Physics 132	5
Psychology 211	3		
	19		18

APPLIED ELECTRONICS TECHNOLOGY

Recommended curriculum with a major in Applied Electronics Technology leading to an Associate Degree

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	General Studies 102	3
Industrial Technology 151	3	Industrial Technology 252	3
Industrial Technology 191	3	Industrial Technology 253	3
General Studies 176	3	General Studies 170	3
Military Science 101	2	Military Science 102	2
General Studies 180	1	General Studies 181	1
	15		15

Second Year

General Studies 140	3	Business 171	3
Industrial Technology 354	3	General Studies 144	3
Military Science 201	2	Industrial Technology 355	5
Business 161	3	Industrial Technology 372	3
Accounting 125	3	Military Science 202	2
Industrial Technology Elective	3	Industrial Technology 201	3
	17		19

PRINTING TECHNOLOGY

Recommended curriculum with a major in Printing Technology leading to an Associate Degree

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	General Studies 102	3
Industrial Technology 191	3	Art 217	3
Industrial Technology 211	3	Industrial Technology 212	3
Military Science 101	2	Military Science 102	2
General Studies 180	1	General Studies 181	1
General Studies 170	3	General Studies 140	3
	15		15

Second Year

General Studies 144	3	Industrial Technology Elective	3
Industrial Technology 213	3	Industrial Technology 214	3
Industrial Technology 216	5	Industrial Technology 317	5
Military Science 201	2	Military Science 202	2
Accounting 125	3	Industrial Technology 215	3
	16		16

INDUSTRIAL TECHNOLOGY

***Industrial Technology 141.** (Formerly Industrial Arts 141.) Elementary Woodwork. **Three hours.** I, II.

Basic instruction in the use of common hand tools; elementary machine operations; problems in wood construction; woodturning; related technical information; finishing and characteristics of common hard and soft woods.

Industrial Technology 151. (Formerly Industrial Arts 151.) Electrical Principles I. **Three hours.** A.

Principles of electostatics and current flow; production of heat, light, and power; electrical energy measurement.

***Industrial Technology 180.** (Formerly Industrial Arts 180.) General Metalwork I. **Three hours.** I, II.

Basic hand and machine operations and related information in sheet metal, bench metal, art metal, arc and oxyacetylene welding, projects and problems in each area of activity.

***Industrial Technology 191.** (Formerly Industrial Arts 13 and 191.) Technical Drawing I. **Three hours.** I, II.

Basic technical drawing involving sketching, lettering, orthographic projection, pictorial representation, drafting techniques, tracing, and reproduction of drawings.

***Industrial Technology 201.** Applied Mathematics in Technology. **Three hours.** A.

A course in mathematics involving an intensive study of applied algebra, geometry, and trigonometry with emphasis on the application of mathematics in the solution of technical problems.

Industrial Technology 211. (Formerly Industrial Arts 211.) Introduction to Graphic Arts. **Three hours.** A.

Graphic Arts materials and manipulative processes; hand composition; elementary letterpress work; silkscreen principles; linoleum block printing; bookbinding.

Industrial Technology 212. (Formerly Industrial Arts 212.) Advanced Graphic Arts. **Three hours.** A.

Basic automatic letterpress procedure and operations; introduction to offset lithography processes; beginning offset process-camera and offset press operations; basic photography; introduction to color process printing.

Industrial Technology 213. (Formerly Industrial Arts 213.) Advanced Photography and Offset Lithography. **Three hours.** A.

Advanced photography and offset lithography; advanced study of graphic arts materials and processes; current trends in graphic arts.

Industrial Technology 214. (Formerly Industrial Arts 214.) Quality Control and In-Plant Organization. **Three hours.** A.

Experience and study in the quality control of printing materials; introduction to the organization of plant facilities and production printing processes.

Industrial Technology 215. (Formerly Industrial Arts 215.) Printing Management. **Three hours.** A.

Production management; salesmanship; advertising; estimating; purchasing; public relations; labor and management relations.

Industrial Technology 216. (Formerly Industrial Arts 216.) Production Printing I. **Five hours.** A.

Basic printing experiences gained through work in the college print shop or in commercial printing establishments.

***Industrial Technology 242.** (Formerly Industrial Arts 21 and 242.) Intermediate Woodwork. **Three hours.** A.

Prerequisite: Industrial Technology 141.

Advanced woodworking operations; instruction in the operation of woodworking machines; care and sharpening of tools; related technical information; construction and finishing of projects.

Industrial Technology 252. (Formerly Industrial Arts 252.) Industrial Electricity. **Three hours.** A.

Power generation and distribution; motor control and repair; relay and solenoid application.

Industrial Technology 253. (Formerly Industrial Arts 253) Electronics I. **Three hours.** A.

Electronic circuit theory and design; introduction to radio, amplifiers, power supplies, and high fidelity.

***Industrial Technology 281.** (Formerly Industrial Arts 281, General Metalwork II. **Three hours.** I, II.

Basic hand tool and machine operations; foundry; forging; heat treating; machine shop projects and problems; related information in each area of activity.

*Indicates course cross-numbered with Industrial Education.

***Industrial Technology 283.** (Formerly Industrial Arts 27 and 283.) Arc and Oxyacetylene Welding. **Three hours.** A.

Manipulative processes and related information basic to successful arc, oxyacetylene, and tungsten inert gas welding; metallurgy of welding; physical testing of weldments.

***Industrial Technology 292.** (Formerly Industrial Arts 20 and 292.) Technical Drawing II. **Three hours.** I, II.

Prerequisite: Industrial Technology 191.

Preparation of detail and assembly drawings; production illustrations; screw threads and fasteners; shop processes; dimetric projections; secondary auxiliaries; reproduction processes and materials.

***Industrial Technology 293.** (Formerly Industrial Arts 23 and 293.) Technical Drawing III. **Three hours.** A.

Prerequisite: Industrial Technology 191.

Advanced drafting techniques with special emphasis on map drafting and sheet metal layout.

Industrial Technology 294. (Formerly Industrial Arts 28 and 294.) House Planning. **Three hours.** A.

Planning a residence—including site selection, floor plans, elevations, details, and specifications; orders of architecture; common styles of homes; interior features; building materials.

Industrial Technology 295. (Formerly Industrial Arts 295.) Machine Drafting. **Three hours.** A.

Development of skills and procedures through the solution of industrial drafting problems. Problem areas include pictorial and multiview drawings of machine assemblies, cams and gears, transmission of motion in mechanisms.

Industrial Technology 296. (Formerly Industrial Arts 296.) Architectural Drafting. **Three hours.** A.

Preparation of sketches and working drawings for residential and commercial buildings; plans for electrification, plumbing, and heating; building codes and FHA standards.

***Industrial Technology 301.** (Formerly Industrial Arts 301.) Industrial Plastics. **Three hours.** A.

A course designed to introduce students to the methods, techniques, processes and materials used in the plastics industries; technical information and operations in plastics; operation of plastics production equipment; mold design, including injection and compression molding; extrusion and problems in production and quality control.

***Industrial Technology 311.** (Formerly Industrial Arts 311.) Graphic Arts I. **Three hours.** I, II.

A course in general graphic arts with emphasis on hand composition, elementary presswork, silkscreen principles, linoleum block printing and bookbinding.

***Industrial Technology 312.** (Formerly Industrial Arts 312.) Graphic Arts II. **Three hours.** A.

An advanced course in graphic arts with emphasis on automatic machine printing; production techniques; photography; and off-set lithography.

Industrial Technology 317. (Formerly Industrial Arts 317.) Production Printing II. **Five hours.** A.

Advanced printing experiences acquired through work in the college print shop or in commercial printing establishments.

Industrial Technology 346. (Formerly Industrial Arts 39, 395, and 346.) Carpentry. **Six hours.** A.

Prerequisite: Industrial Technology 242.

Problems in small home construction; selection of site; form construction; framing; installation of siding; roofing; flooring, windows, doors and interior finish; electrical wiring; plumbing and painting; practice in actual construction.

***Indicates course cross-numbered with Industrial Education.**

Industrial Technology 351. (Formerly Industrial Arts 351.) Fundamentals of Applied Electricity. **Three hours.** I, II.

Principles of static and current electricity; measures of electricity; heat, light, and power applied to the planning and construction of electrical installations.

***Industrial Technology 352.** (Formerly Industrial Arts 352.) Electrical Power and Motor Repair. **Three hours.** A.

Generation and distribution of electricity; power distribution systems; maintenance and repair of electrical motors.

***Industrial Technology 353.** (Formerly Industrial Arts 353.) (Formerly called Introduction to Radio and Electronics) Introduction to Electronics. **Three hours.** A.

Prerequisite: Industrial Technology 351.

Fundamentals of vacuum tubes; semiconductor devices, AM radio receivers, and servicing techniques.

***Industrial Technology 354.** (Formerly Industrial Arts 354.) Advanced Electronics. **Three hours.** A.

Principles of superheterodyne receivers; frequency modulation; solid state devices; transmitters; electronic equipment servicing techniques.

Industrial Technology 355. (Formerly Industrial Arts 355.) Applied Electronics. **Five hours.** A.

Laboratory experiences in circuit design, circuit tracing, and the repair and operation of modern electronic equipment; individual problems in building experimental circuits and servicing of defective equipment.

***Industrial Technology 372.** (Formerly Industrial Arts 372.) Power Mechanics I. **Three hours.** I, II.

Prerequisite: Industrial Technology 351 or consent of instructor.

Pinciples of power sources and basic mechanisms. Disassembly, inspection, measurement, adjustment, and tune-up of the two and four cycle small gasoline engine.

***Industrial Technology 373.** (Formerly Industrial Arts 373.) Power Mechanics II. **Three hours.** A.

Study of the multi-cylinder engine; fuels and fuel systems, lubrication, cooling, ignition, tests, tune-up, adjustment, and minor repair.

***Industrial Technology 382.** (Formerly Industrial Arts 34 and 382.) Machine Shop Practice I. **Three hours.** A.

Projects and problems involving machine operations on the lathe; bench work; blue print reading; precision measurement; related technical information.

***Industrial Technology 385.** (Formerly Industrial Arts 25 and 385.) Sheet Metalwork. **Three hours.** A.

Prerequisite: Industrial Technology 281.

Care and use of common sheet metal tools and machines; lay-outs; templates; problems involving soldering, seaming, punching, riveting, forming, and spot welding.

***Industrial Technology 394.** (Formerly Industrial Arts 37 and 394.) (Formerly called Elementary Architectural Drawing) Architectural Drawing I. **Three hours.** I, II.

Prerequisite: Industrial Technology 191.

Basic principles of house planning; styles of home architecture; comparative study of building materials; the preparation of a complete set of plans and specifications for a small home.

***Industrial Technology 395.** (Formerly Industrial Arts 395.) Descriptive Geometry. **Three hours.** A.

Application of the theory of orthographic projection to the graphical representation and solution of three-dimensional problems. (Same as Mathematics 395.)

*Indicates course cross-numbered with Industrial Education.

***Industrial Technology 411.** (Formerly Industrial Arts 411.) Graphic Arts III. **Three hours.** A.

Advanced photography; offset lithography; graphic arts materials and processes; printing management; current trends in the graphic arts industry.

***Industrial Technology 451.** Industrial Electronics I. **Three hours.** A.

Prerequisite: Industrial Technology 353.

Principles of timing, control circuitry, transducers, polyphase systems, and gaseous tubes as applied to industrial and commercial installations.

***Industrial Technology 452.** Industrial Electronics II. **Three hours.** A.

Prerequisite: Industrial Technology 451.

Applications of industrial control circuitry; generation of electricity; power distribution systems; maintenance and repair of electrical devices.

***Industrial Technology 454.** (Formerly Industrial Arts 454.) (Formerly called Advance Radio and Electronics I) Communications Electronics I. **Three hours.** A.

Prerequisite: Industrial Technology 353.

Advanced radio communication receiving principles; quality audio reproducing devices; transmitter procedures; transmitting antennas; communications systems and electronics servicing techniques.

***Industrial Technology 455.** (Formerly Industrial Arts 455.) (Formerly called Principles of Television) Communications Electronics II. **Three hours.** A.

Prerequisite: Industrial Technology 454.

Principles of television; antenna theory and installation; closed circuit television operation; and television servicing techniques.

Industrial Technology 471. Power Transmission. **Three hours.** A.

Principles of mechanical, electrical and fluid power transmission. Disassembly, inspection, and adjustment of mechanical transmission units; construction of fluid power circuits emphasizing their application to modern machines.

Industrial Technology 472. Chassis and Electrical Systems. **Three hours.** A.

A detailed study and application of starting, charging, lighting, and accessory circuits, suspension, brakes, power brakes, steering, power steering, air conditioning.

***Industrial Technology 487.** (Formerly Industrial Arts 44 and 487.) Machine Tool Processes II. **Three hours.** A.

Prerequisite: Industrial Technology 382.

Continuation of Industrial Technology 382 with increased emphasis on machine tool operations; gear cutting; tool and cutter grinding; problems in tool making; related technical information.

***Industrial Technology 488.** (Formerly Industrial Arts 45 and 488.) Machine Tool Processes III. **Three hours.** A.

Prerequisite: Industrial Technology 487.

Practice and study in advanced machine tool operations and tool making; heat treating of metals; related technical studies and metrology.

***Industrial Technology 489.** (Formerly Industrial Arts 489.) Characteristics and Maintenance of Machine Tools. **Two hours.** A.

Prerequisite: Industrial Technology 487.

A study of machine design and construction; installing, servicing, powering and rebuilding machine tools.

***Industrial Technology 492.** (Formerly Industrial Arts 492.) Technical Drawing IV. **Three hours.** A.

Prerequisite: Industrial Technology 292.

Advanced machine drafting dealing with detail and assembly drawing, patent drawing, production illustrations, and tool design.

*Indicates course cross-numbered with Industrial Education.

***Industrial Technology 496.** (Formerly Industrial Arts 47 and 496.) (Formerly called Advanced Architectural Drawing) Architectural Drawing II. **Three hours.** A.

Prerequisite: Industrial Technology 394.

Preparation of complete plans and specifications for small commercial and large residential buildings; emphasis on modern methods and materials utilized in the building industry; illustrative rendering; structural modeling.

***Industrial Technology 501.** (Formerly Industrial Arts 401.) (Formerly called Special Problems in Industrial Arts) Special Problems in Industrial Technology. **Three hours.** I, II.

A course for exceptional undergraduates involving independent study and research related to problems of a theoretical and/or practical nature.

***Industrial Technology 511.** Advanced Technical Problems in Graphic Arts. **Two-Six hours.** I, II.

Technical instruction in the graphic arts field. Recent developments, advanced technical and experimental problems, and preparation of technical reports in graphic arts.

***Industrial Technology** 353. (Formerly Industrial Arts 433.) (Formerly called Workshop in Industrial Arts) Workshop in Industrial Technology. **Four hours.** A.

533b Graphic Arts; 533c Plastics; 533d Power Mechanics; 533e Electronics; 533g Metals. (Formerly 433b, 433c, 433d, 433e, 433g.)

***Industrial Technology 541.** Advanced Technical Problems in Woodworking. **Two-Six hours.** I, II.

Technical instruction in the woodworking field. Recent developments, advanced technical and experimental problems, and preparation of technical reports in woodworking.

***Industrial Technology 551.** Advanced Technical Problems in Electricity-Electronics. **Two-Six hours.** I, II.

Technical instruction in the electricity-electronics field. Recent developments, advanced technical and experimental problems, and preparation of technical reports in electricity-electronics.

***Industrial Technology 571.** Advanced Technical Problems in Power Mechanics. **Two-Six hours.** I, II.

Technical instruction in the power mechanics field. Recent developments, advanced technical and experimental problems, and preparation of technical reports in power mechanics.

***Industrial Technology 581.** Advanced Technical Problems in Metalworking. **Two-Six hours.** I, II.

Technical instruction in the metalworking field. Recent developments, advanced technical and experimental problems, and preparation of technical reports in metalworking.

***Industrial Technology 591.** Advanced Technical Problems in Drafting. **Two-Six hours.** I, II.

Technical instruction in the drafting field. Recent developments, advanced technical and experimental problems, and preparation of technical reports in drafting.

*Indicates course cross-numbered with Industrial Education.

LAW ENFORCEMENT

Robert W. Posey, Chairman

The responsibility of the Department of Law Enfrocement is to prepare students for careers in police work. The curricula presents subjects in organization, supervision, operations, and techniques. Enforcement, utilizing both repressive and preventative approaches, as well as investigative techniques with laboratory participation is treated. The student may expect to acquire a foundation in police history, philosophy, and trends.

The curricula provides areas of concentration at the associate degree level in: Law Enforcement, Juvenile, Corrections, and Industrial Security. The Bachelor of Science degree is also offered in Law Enforcement.

Students completing this program should expect employment in state police organizations, federal law enforcement agencies, county police agencies, city police agencies, various investigative agencies, corrections and social work.

Students will be fully admitted to the Department of Law Enforcement only after a determination of good character has been made. A thorough check will be made of each student's background during the first semester in which the student enrolls for law enforcement courses.

LAW ENFORCEMENT

Recommended curriculum for a B. S. degree with a major in law enforcement. The first two years of this curriculum may be found in the Central University College section of the catalog

Third Year

First Semester	Hours	Second Semester	Hours
Industrial Technology 201	3	Sociology 231	3
Psychology 211	3	Psychology 308	3
*Minor subject	3	*Minor subject	3
Law Enforcement 301	3	Law Enforcement 303	3
Law Enforcement 302	3	Law Enforcement 304	3
	15		15

Fourth Year

Law Enforcement 305	3	Law Enforcement 307	1
Law Enforcement 306	3	Law Enforcement elect	3
**Law Enforcement elect	3	Political Science 362	3
*Minor subject	6	*Minor subject	3
Art 390	3	Art 391	3
		General elective	2
	18		15

*Minors are recommended in the fields of business, psychology, sociology, or political science. The minor field should be selected in consultation with the head of the Department of Law Enforcement. The courses comprising the minor field (18 semester hours) will be selected with the approval of the head of the Department of Law Enforcement and the department head in the minor field.

**Law enforcement electives selected with approval of the head of the Department of Law Enforcement.

LAW ENFORCEMENT

LAW ENFORCEMENT—GENERAL

Recommended curriculum for an Associate Degree

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	General Studies 102	3
General Studies 180	1	General Studies 181	1
General Studies 176	3	General Studies 162 or 170	3
Military Science 101	2	Military Science 102	2
Business 151	2	Law Enforcement 102	3
Health 202	2	Law Enforcement 203	3
Law Enforcement 101	3	Law Enforcement 205	3
	16		18

Second Year

Psychology 211	3	Political Science 362	3
Political Science 101	3	Sociology 231	3
Military Science 201	2	Military Science 202	2
Law Enforcement 301	3	Law Enforcement 304	3
Law Enforcement 302	3	Law Enforcement 305	3
Law Enforcement 303	3	Law Enforcement 306	3
		Law Enforcement 307	1
	17		18

LAW ENFORCEMENT

LAW ENFORCEMENT—INDUSTRIAL SECURITY

Recommended curriculum for an Associate Degree

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	General Studies 102	3
General Studies 180	1	General Studies 181	1
General Studies 176	3	General Studies 162 or 170	3
Military Science 101	2	Military Science 102	2
Business 151	2	Law Enforcement 102	3
Health 202	2	Law Enforcement 203	3
Law Enforcement 101	3	Law Enforcement 205	3
	16		18

Second Year

Psychology 211	3	Political Science 362	3
Political Science 101	3	Sociology 231	3
Military Science 201	2	Military Science 202	3
Law Enforcement 301	3	Law Enforcement 304	3
Law Enforcement 302	3	Law Enforcement 313	3
Law Enforcement 312	3	Law Enforcement 306	3
		Law Enforcement 307	1
	17		18

LAW ENFORCEMENT

LAW ENFORCEMENT—JUVENILE

Recommended curriculum for an Associate Degree

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	General Studies 102	3
General Studies 180	1	General Studies 181	1
General Studies 176	3	General Studies 162 or 170	3
Military Science 101	2	Military Science 102	2
Business 151	2	Law Enforcement 102	3
Health 202	2	Law Enforcement 203	3
Law Enforcement 101	3	Law Enforcement 205	3
	16		18

Second Year

Psychology 211	3	Political Science 362	3
Political Science 101	3	Sociology 231	3
Military Science 201	2	Military Science 202	2
Law Enforcement 301	3	Law Enforcement 304	3
Law Enforcement 310	3	Law Enforcement 311	3
Law Enforcement 303	3	Law Enforcement 306	3
		Law Enforcement 307	1
	17		18

LAW ENFORCEMENT

LAW ENFORCEMENT—CORRECTIONS

Recommended curriculum for an Associate Degree

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	General Studies 102	3
General Studies 180	1	General Studies 181	1
General Studies 176	3	General Studies 162 or 170	3
Military Science 101	2	Military Science 102	2
Business 151	2	Law Enforcement 102	3
Health 202	2	Law Enforcement 204	3
Law Enforcement 101	3	Law Enforcement 205	3
	16		18

Second Year

Psychology 211	3	Political Science 362	3
Political Science 101	3	Sociology 231	3
Military Science 201	2	Military Science 202	2
Law Enforcement 301	3	Law Enforcement 304	3
Law Enforcement 308	3	Law Enforcement 309	3
Law Enforcement 303	3	Law Enforcement 306	3
		Law Enforcement 307	1
	17		18

LAW ENFORCEMENT

Law Enforcement 101. Introduction to Law Enforcement. **Three hours. A.**

An introduction to the philosophical and historical background; agencies and processes; purposes and functions. An evaluation of law enforcement today; current trends; career orientation.

Law Enforcement 102. Police Organizations. **Three hours. A.**

Principles of organization in law enforcement agencies; functions and activities; various divisions and subdivisions with specfied responsbilities and functions. Contrasting of various organizational structures.

Law Enforcement 203. Police Patrol and Services. **Three hours. A.**

Organization, administration and supervision of the patrol function. Responsibilities, techniques and methods of police patrol. Various services and public assistance offered by police organizations.

Law Enforcement 204. Introduction to Penology. **Three hours. A.**

A survey of philosophy and history of corrections; a study of correctional institutions; probation, parole, and processes involving corrections; a survey of career opportunities.

Law Enforcement 205. Police Administration I. **Three hours. A.**

An examination of the principles of organization, administration and functions of police departments. An evaluation of personnel policies, divisions, operations, command policies, and evaluation of the department as a whole.

Law Enforcement 301. Introduction of Criminalistics. **Three hours. A.**

A course designed to give the student a basic knowledge of crime scene protection, collection, preservation and identification of evidence, including proper search, dusting latent prints, casting, fingerprint classification, and use of crime laboratory and crime detection and prosecution

Law Enforcement 302. Traffic Accident Investigation. **Three hours. A.**

An introduction to traffic accident investigation procedures, including the causes of accidents, the methods of gathering and analyzing data, the preparation of the written report, and the use of accident statistics as a preventive tool in traffic safety.

Law Enforcement 303. Court Procedures and Mechanics. **Three hours. A.**

Case preparation; officer demeanor in court; effective presentation of evidence; trial procedure; use of written notes; officer appearance; and reaction to cross examination.

Law Enforcement 304. Criminal Investigation. **Three hours. A.**

Fundamentals of criminal investigation, crime scene search and recording, collection and preservation of physical evidence, scientific aids, modus operandi, sources of information, interviews and interrogation, follow-up and case preparation.

Law Enforcement 305. Police Administration II. **Three hours. A.**

Prerequisite: L. E. 205.

A detailed study of the organization, administration and function of the police department. The designing of policies; a study of the arrangement within a department of specific operations and commands.

Law Enforcement 306. Seminar in Law Enforcement. **Three hours. A.**

Reviews and synthesis of basic principles, practices, and procedures. Visitation to operating police organization. Final preparation for employment in law enforcement.

Law Inforcement 307. Firearms. **One hour. A.**

This course includes the moral aspects, legal provisions, safety precautions, restrictions covering the use of firearms, nomenclature, and the firing of the sidearm and shotgun.

Law Enforcement 308. Probation and Parole. **Three hours. A.**

A history and philosophy of probation and parole; function and operation of parole board; statutory authorization and limitation; modern trends; personnel qualifications.

Law Enforcement 309. Prison Security and Administration. **Three hours.** A.
Selection and training of guard force; dispersement of guard personnel; design and arrangement of physical detention barriers; separation of prisoner personnel; dealing with illegal traffic within the prison; scheduling activities and labor details; prison policies and procedures.

Law Enforcement 310. The Juvenile and the Police. **Three hours.** A.
The development of delinquent and criminal behavior; initial handling and proper referrals; preventive police techniques; special police problems with juveniles; juvenile laws; agencies concerned.

Law Enforcement 311. Juvenile Procedures. **Three hours.** A.
A course in organization, function, and jurisdiction of juvenile agencies; the processing and detention of juveniles; case disposition; and juvenile statutes and court procedures.

Law Enforcement 312. Business and Industrial Security. **Three hours.** A.
Selection, training and staffing of security force; security devices available; techniques of internal security; ground security; security techniques applicable to personnel selection; legal problems; employment opportunities.

Law Enforcement 313. The Prevention of Fire and Accidents. **Three hours.** A.
Fire and accident prevention, organization and functioning; recognition and solution of hazards; regulations and enforcement; common and special problems.

NURSING

Bertha J. Fanjoy, Chairman

The Associate Degree Program in Nursing combines general education and nursing education in a two year collegiate environment. Upon successful completion of the total program, the student is eligible to take the State Board Examination to obtain a professional nurse license.

Purpose:

1. The primary purpose of the program is to prepare the student to give patient care as a registered professional nurse in a hospital, clinic, doctor's office, or home.
2. The program is designed to help the student develop her potential as an individual, as a citizen in a democratic society, and as a contributing member of the nursing profession.
3. As a practitioner of nursing, a graduate of this program is prepared to draw upon a background of scientific and humanistic understanding in administering nursing care.
4. The student secures college-level general education and nursing education while sharing social experiences with students in other curricular areas.

NURSING

The two year program in nursing is designed to provide a highly specialized program of study in nursing and related subjects. This curriculum leads to the Associate of Arts Degree in Nursing. Students successfully completing the program of study are eligible to write the State Board Examination for registered nurses.

First Year

First Semester	**Hours**	**Second Semester**	**Hours**
General Studies 101	3	General Studies 102	3
Psychology 211	3	Chemistry 115	4
Biology 171	4	Psychology 312	3
Nursing 111	5	Nursing 113	2
Nursing 112	1	Nursing 114	6
	16		18

Second Year

Sociology 231	3	Nursing 220	2
Biology 273	4	Nursing 212	9
Nursing 211	9	Guided electives in Humanities	6
	16		17

NURSING

Nursing 111. Nursing Fundamentals I. **Five hours.** I.

Basic concepts and fundamentals relating to all nursing. A sequence of planned experiences is designed to develop basic understanding, knowledge and skill of basic human needs.

Nursing 112. The Nursing Profession. **One hour.** I.

A historical review of nursing, a study of current trends, including legislation affecting nursing, and legal aspects of the profession.

Nursing 113. Nursing Fundamentals II. **Two hours.** II.

Prerequisite: Nursing 111.

General principles in the preparation and administration of therapeutic agents; prescribed therapy; preparing and administering; observing and reporting results of therapy; legal aspects pertaining thereto.

Nursing 114. Maternal and Child Nursing. **Six hours.** II.

Prerequisite: Nursing 111.

The study and application of the techniques and theorics of maternal and child nursing.

Nursing 211. Nursing of the Physically and Mentally Ill—A. **Nine hours.** I.

Prerequisites: Nursing 111, 113.

The study and application of the techniques and theories in nursing care given to the physically and mentally ill.

Nursing 212. Nursing of the Physically and Mentally Ill—B. **Nine hours.** II.

A continuation of Nursing 211.

Nursing 220. Seminar in Nursing. **Two hours.** II.

Prerequisites: Nursing 111, 113, 211, 212.

A comprehensive review of the duties and responsibilities inherent in professional nurses license; identification of nursing problems and realistic approaches to solution; capabilities and limitations of new graduate nurses; career opportunities; the legal and ethical implications in nursing practice.

THE KENTUCKY SCHOOL OF CRAFTS

Kenneth S. Hansson, Chairman

The Kentucky School of Crafts is an academic department in the College of Applied Arts and Technology. This department will offer courses beginning with the 1966-67 academic year. Additional information concerning this department may be obtained by writing to the Dean, College of Applied Arts and Technology.

College of Arts & Sciences

EASTERN KENTUCKY UNIVERSITY
UNITED WE STAND ★ DIVIDED WE FALL
FOUNDED 1906
RICHMOND

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Physics 227
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Science 237
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COLLEGE OF ARTS AND SCIENCES

Frederic D. Ogden, Dean

The role of the College of Arts and Sciences is to provide a basic liberal education for the student and to help him prepare for life in the cultural setting in which he will practice his vocation or profession. A liberal education is designed to free and enlarge the mind and spirit of man, to liberate him from the meanness and meagerness of mere existence, and to enable him to choose in freedom his values and goals. The College of Arts and Sciences offers opportunities for this kind of education not only to its own students but also to the students of all divisions of the University. It cooperates with the Central University College in providing courses in general education; with the Colleges of Applied Arts and Technology, Business, and Education in providing upper level courses; and with the Graduate School in providing graduate programs and graduate courses.

To fulfill its role, the College of Arts and Sciences offers instruction and conducts research in anthropology, art, biology, chemistry, drama, English, foreign languages, geography, geology, health, history, mathematics, military science, music, philosophy, physical education, physics, political science, recreation, sociology, and speech. In addition, a student in the College of Arts and Sciences may pursue a course of study in economics.

Another important function of the College is to offer courses which are intended to prepare the student for later study of professional courses. Specific preprofessional programs are offered which are designed to prepare the student to qualify for admission to schools of medicine and dentistry. A three-year medical technology curriculum, with the fourth year to be taken in an accredited hospital, is provided. Courses are offered which are designed to prepare the student for further work in engineering, forestry, law and social work. The Department of Health, Physical Education and Recreation offers a two-year program in recreation supervision leading to the Associate of Arts degree.

Admission

Students are admitted to the College at the beginning of their junior year. Those students pursuing courses of study offered by departments in the College will be registered in it. Students seeking certification to teach at the secondary level will be registered in the College of Arts and Sciences if their major is in the College. Students should apply for admission to the College as they approach the completion of their sophomore year. To be admitted, they must have completed a minimum of sixty-four semester hours with a grade point average of 2.0 or higher and the required courses specified in the particular curriculum which they are following.

DEGREES OFFERED

Degrees Offered

The College of Arts and Sciences offers curricula leading to the degrees of Bachelor of Arts, Bachelor of Science, Bachelor of Music Education, and Bachelor of Music. For the requirements for degrees in music, see the Music section of this Catalogue.

Requirements for Graduation

Students are required to file an application for graduation with the Registrar at the beginning of the next to the last semester in residence before graduation. This application is forwarded to the Dean of the College who will check the student's record and notify him of any deficiency. **It is the student's responsibility to plan his program and to register for the proper courses so that he will have satisfied all requirements at the time he expects to graduate.**

The requirements for the degree are:

1. A minimum of 128 hours and a grade point average of 2.0. Thirty of the last 36 hours must be earned in residence at Eastern Kentucky University. Credits earned by correspondence study are accepted upon written approval of the Dean. Not more than twenty-five per cent of the total credits offered for the degree may be in correspondence and/or extension work.

2. The 128 hours must include the following general subject requirements:

12 hours in English

6 hours in humanities other than English

12 hours in mathematics and natural science (may be all in natural science; at least three hours in biological science and three hours in physical science.)

12 hours in social science.

5 hours in health and physical education.

8 hours in military science, men only

(See Central University College section for the specific course requirements.)

3. Area, major and minor requirements. Each student must have an area of specialization or a major and a minor subject of specialization. The minimum total number of hours in the area and in the major-minor combination must equal 48. See the programs outlined under each Department for the specific course requirements.

Each student must officially register his area or his major and minor when he is admitted into the College of Arts and Sciences. He does so by applying for a planned curriculum. If he plans to receive a certificate to teach, he applies for the planned curriculum in the Office of the Associate Dean for Teacher Education, College of Education. If he does not plan to receive a certificate to teach, he applies in the Office of the Dean, College of Arts and Sciences. His planned curriculum will be prepared in consultation with a faculty advisor from the major department staff who will continue as his advisor until his graduation. Any change in the planned curriculum must be approved by the chairman of the major department, the Dean of the College of Arts and Sciences, and the Associate Dean of Teacher Education (if with right of certification).

ANTHROPOLOGY

Robert H. Sanders, Chairman

Recommended curriculum for a major in Anthropology without right of teaching certificate. The first two years of this curriculum may be found in the Central University College section.

Third Year

First Semester	Hours	Second Semester	Hours
Anthropology 300	3	Anthropology 310	3
Anthropology 350	3	Anthropology 430	3
Psychology 211	3	Art 200	3
Electives	7	Electives	6
		Elective in Anthropology	3
	16		18

Fourth Year

Anthropology 555	3	Anthropology 440	3
Anthropology 465	3	Anthropology 590 or 595	3
Electives	9	Electives	9
	15		15

ANTHROPOLOGY

Recommended curriculum for a major in Anthropology without right of teaching certificate.

A student may major in Anthropology by completing the following courses in Anthropology: 110, 230, 300, 310, 350, 430, 440, 465, 555, 590 or 595, and 3 hours elective in Anthropology.

Recommended curriculum for a second major in Anthropology.

A student with a major in another department may take a second major in Anthropology by completing the same courses in Anthropology as required for a first major.

Recommended curriculum for a minor in Anthropology.

A student may minor in Anthropology by taking the following courses in Anthropology: 110, 230, 300, 310, 350, and 555.

ANTHROPOLOGY

Anthropology 110. Societies Around the World. **Three hours. I, II.**
Ethnography of selected cultures around the world; the formal and informal way, technology, and ideology. Primitive and modern.

Anthropology 230. Introductory Anthropology. **Three hours.** I, II.

A general survey of the field of anthropology The origin of man and his cultures. A thorough definition of the key concept of culture and related concepts. The content of culture is examined, and particular areas of specialized interests are introduced, including linguistics, archaeology, culture and personality, social anthropology, and applied anthropology.

Anthropology 300. Bio-Anthropology. **Three hours.** I.

Prerequisite: Anthropology 230 or consent of instructor.

The study of man as a biological organism; man's evolutionary development from the earliest primate fossil evidence to the formation and spread of modern racial groups; the basic genetic mechanisms which bring about these changes; the techniques of investigation in physical anthropology and an analysis of principal current theories and problems in that field.

Anthropology 310. Evolution of Primitive Cultures. **Three hours.** II.

Prerequisite: Anthropology 230 or consent of instructor.

The techniques of archeological investigation followed by a systematic survey of the major prehistoric cultures of the world from their earliest evidence to modern times.

Anthropology 330. American Indians. **Three hours.** I.

Prerequisite: Anthropology 230 or consent of instructor.

Primarily a study of North American Indian cultures; their origin, and development. Particular attention is given to their similarities and differences.

Anthropology 340. Folk and Peasant Societies. **Three hours.** II.

Prerequisite: Anthropology 230 or consent of instructor.

A definitive look at the folk or peasant form of adaptation. Emphasis is given to the relatively stable nature of these societies, and their extensiveness. The problem of contact with non-peasant societies is presented.

Anthropology 350. Social Anthropology. **Three hours.** II.

Prerequisite: Anthropology 230 or consent of instructor.

The use of the comparative approach in the analysis of structure, function, and change in social systems. The development of generalizations concerning human society based on the comparisons of systems in various cultures.

Anthropology 420. Belief Systems of Preliterate Peoples. **Three hours.** A.

Prerequisite: Anthropology 230 or consent of instructor.

The world view, beliefs and rituals of selected preliterate peoples considered with reference to religion, magic, and witchcraft; the nature of change in these beliefs and practices and a review of theories advanced to account for them.

Anthropology 430. Culture and Personality. **Three hours.** A.

Prerequisite: Anthropology 230 and Psychology 211 or consent of instructor.

Following a short review of culture systems and personality systems, the origins of the field of study are presented. The details of the process of socialization are studied. The concepts of model and normal personality and of national character are reviewed against empirical studies. Methods of personality assessment are introduced, and the problem of disorganization is considered.

Anthropology 440. Language and Culture. **Three hours.** A.

Prerequisite: Anthropology 230 or consent of instructor.

An analysis of the role of language in human experience; the mutual effect of language on culture and culture on language.

Anthropology 465. Field Methods in Anthropology. **Three hours.** A.

Prerequisite: Nine hours in Anthropology and consent of instructor.

Primarily for anthropology majors. An introduction to the methods and techniques in both field and library research. Such topics as defining the problem, designing the study, collecting and analyzing the data, and writing the report will be covered.

Anthropology 555. (Formerly Anthropology 455) Anthropology Theory. **Three hours.** II.

Prerequisite: Nine hours in Anthropology and consent of instructor.

A systematic analysis of the major theories in anthropology, with emphasis on their meaning for research.

Anthropology 580. (Formerly Anthropology 480) Applied Anthropology. **Three hours.** A.

Prerequisite: Nine hours in Anthropology and consent of instructor.

An advanced review of the main areas of Anthropological knowledge and how it is utilized in resolving problems in contemporary situations. Among areas considered are linguistics, thought systems, technology, and personality.

Anthropology 590. (Formerly Anthropology 490) Tutorial in Anthropology and Sociology. **Three hours.** A.

Prerequisite. Twelve hours in Anthropology and consent of instructor.

Individual reading and research on a problem or area within the field of anthropology chosen by the student after consultation with the instructor. The Student's work will culminate in a research paper or essay. (Same as Sociology 590)

Anthropology 595. (Formerly Anthropology 495) Seminar in Anthropology and Sociology. **Three hours.** A.

Prerequisite: Eighteen hours in Anthropology and Sociology or consent of instructor.

A topic of major importance in the fields of Anthropology and Sociology will be selected for intensive investigation. Topic will change from semester to semester. (Same as Sociology 595)

GRADUATE DIVISION COURSES

Anthropology 600. (Formerly Anthropology 500) Anthropology and Modern Life. **Three hours.** A.

An extensive review of the field of anthropology with emphasis on the implications of recent theoretical and factual developments for man in the modern world.

Anthropology 610. (Formerly Anthropology 510) Anthropology and Education. **Three hours.** A.

Prerequisite: Anthropology 600 or an undergraduate background in Anthropology.

A cross-cultured analysis of educational processes; the growth, adaptation, and personality development of the child (enculturation and socialization) including the transmission of skills, knowledge, attitudes, and values, the relationship of the educational process to social structure (effect of class, group alignments, prestige, ranking, status, and role, and social control; implications for modern education).

ART

Daniel Shindelbower, Chairman

A student may work towards a minor, a major (with or without right of teaching certificate) a second major, or an area (with right of teaching certificate) in Art.

The course requirements for a minor in Art are Art 102, 103, 390 or 391 or 392, 430, and nine hours of electives in Art.

The course requirements for a major in Art with the right of teaching certificate are Art 100, 101, 102, 103, 203, 204, 227 or 327 or 328, 229 or 329, 361, 390, 391, 430, 461, 562.

The course requirements for a major in Art without the right of teaching certificate are Art 100, 101, 102, 103, 203, 227, 229, 330, 390, 391, 392, 562. The Art major (without right of teaching certificate) is required to take twelve hours in a foreign language if he begins the language in college, or six hours if he continues the language at the intermediate level.

The course requirements for a second major in Art are Art 100, 102, 103, 203, 227 or 327 or 328, 229 or 329, 361, 390, 391, 430.

The course requirements for an area (with right of teaching certificate) in Art are Art 100, 101, 102, 103, 203, 204, 227, 229, 329, 327 or 328, 330, 361, 390, 391, 392, 430, 461, 562.

ART

Recommended curriculum for a major in Art with right of Teaching Certificate. The first two years of this curriculum may be found in the Central University College section

Third Year

First Semester	Hours	Second Semester	Hours
Art 229 or 329	3	Art 227 or 327 or 328	3
Art 390	3	Art 361	3
Education 315	2	Art 391	3
Social Science Elective	3	Education 316	2
Science or Mathematics Elective	3	Science or Mathematics Elective	3
Elective	3	Elective	3
	17		17

Fourth Year

Art 430	3	Art 461	3
Art 562	3	Education 364	4
Art Elective	3	Education 463	10
Electives	6		
	15		17

ART

Recommended curriculum for a Bachelor of Arts without right of Teaching Certificate. The first two years of this curriculum may be found in the Central University College section

This degree has a foreign language requirement of 6-12 semester hours, depending upon the previous experience of the student.

Third Year

First Semester	Hours	Second Semester	Hours
Art 330	3	Art 391	3
Art 390	3	Science (Elective Upper Division)	3
Approved Elective	3	Minor Electives	6
Social Science Elective	3	Approved Electives	6
Science (Elective Upper Division)	3		
	15		18

Fourth Year

Art 392	3	Art 562	3
Minor Electives	9	Approved Electives	12
Approved Electives	6		
	18		15

ART

Recommended curriculum for an area in Art with right of Teaching Certificate. The first two years of this curriculum may be found in the Central University College section

Third Year

First Semester	Hours	Second Semester	Hours
Art 329	3	Art 327 or 328	3
Art 330	3	Art 361	3
Art 390	3	Art 391	3
Education 315	2	Art Elective	3
Social Science Elective	3	Education 316	2
Science or Mathematics Elective	3	Science or Mathematics Elective	3
	17		17

Fourth Year

Art 392	3	Art 461	3
Art 430	3	Education 364	4
Art 562	3	Education 463	10
Art Electives	6		
	15		17

ART

Art 100. Drawing I. **Three hours.** I.

An introduction to the basic principles of drawing, placing emphasis on design with value, line, and texture.

Art 101. Drawing II. **Three hours.** II.

Prerequisite: Art 100.

A continuation of Drawing I; observation of natural forms.

Art 102. Design, Two-Dimensional. **Three hours.** I.

An introduction to the abstract characteristics of design with color, line, and texture.

Art 103. Design, Three-Dimensional. **Three hours.** II.

An introduction to the methods, materials and concepts related to the control of space.

Art 117. Drawing and Design. **Three hours.** I, II.

Orientation of the student to the basic knowledges and skills in art through the use of pencil, tempera, water color, and colored chalks. This foundation course is planned to develop an understanding and appreciation of the principles of creative design as applied to the visual arts.

Art 200. Art Appreciation: Orientation. **Three hours.** I, II.

Designed to establish a basis for judgment and good taste in the consideration and use of art in daily living through the study of examples of architecture, sculpture, painting, weaving. the art of the book, and ceramics.

Art 202. Ceramics and Ceramic Sculpture. **Three hours.** A.

Prerequisite: Art 117.

Creative experience in three dimensional composition given for the purpose of developing a stronger sense of plastic form; objects molded by hand, and on the potter's wheel.

Art 203. Painting I. **Three hours.** I.

Prerequisite: Art 101, 102.

Design with color, line, and texture; with emphasis on color.

Art 204. Painting II. **Three hours.** II.

Prerequisite: Art 203.

Problems in color, line, and texture as they relate to painting media.

Art 227. (Formerly called Structural Design.) Sculpture: The Additive Process. **Three hours.** I, II.

Prerequisite: Art 103.

Development of concepts related to the additive process of sculpture: plasticine, clay, plaster, and wax.

Art 229. Crafts, Two-Dimensional. **Three hours.** I, II.

Prerequisite: Art 102.

Basic experiences with two dimensional crafts such as college, mosaics, batik, and stitchery.

Art 317. (Formerly Art 217) Lettering and Poster Design. **Three hours.** A.

Development of ability to apply art principles in the production of hand lettering; lettering structure; spacing; poster design.

Art 321. Drawing and Illustration. **Three hours.** A.

Prerequisite: Art 117.

Emphasizing skill in drawing and illustration of ideas; specific study of perspective; pictorial composition; illustration of stories; murals; media—pencil, charcoal, water color, and ink.

Art 322. Color and Design. **Three hours.** A.

Prerequisite: Art 117.

Color theory as related to pigments and sensation; practical color notation; application of color in design.

Art 327. Sculpture, The Constructive Process. **Three hours.** A.

Development of concepts related to the constructive process of sculpture: wood, metal, plaster, and related materials.

Art 328. Sculpture, The Subtractive Process. **Three hours.** A.

Development of concepts related to the subtractive process of sculpture: wood, stone, and related materials.

Art 329. Crafts, Three-Dimensional. **Three hours.** II.

Prerequisite: Art 103.

Basic experiences with three dimensional crafts such as ceramics, metal, enameling, metal smithing, and jewelry.

Art 330. Graphics. **Three hours.** I.

Prerequisite: Art 101, 102.

Basic experiences with relief, intaglio, and planographic printmaking.

Art 360. (Formerly Art 260) (Formerly called Public School Art) Materials and Processes in the Elementary School. **Three hours.** II.

An inquiry into art education as an integral part of the total school experience and its implications for fostering creative growth and development within the child.

Art 390. Survey of Art History. **Three hours.** I, II.

A survey of the development of art and architecture from the Stone Age through the Early Middle Ages.

Art 391. Survey of Art History. **Three hours.** I, II.

A survey of the development of art and architecture from the Late Middle Ages through the Baroque in France and England.

Art 392. Survey of Art History. **Three hours.** I, II.

A survey of the development of art and architecture from Neo-Classicism and Romanticism through Contemporary.

Art 430. Materials Inquiry in Art Education. **Three hours.** I.

Prerequisite: Open only to senior art students who plan to teach.

A diversified inquiry into materials and procedures in the elementary and secondary schools.

Art 461. The Arts in the High School. **Three hours.** I, II.

Survey of art in the secondary schools for the purpose of examining the theories and practices in the rural and city high schools. Practice in planning units and courses of study which will give an understanding of our heritage in the arts, and an appreciation of art in daily living.

Art 521. (Formerly Art 421). Advanced Drawing. **Three hours. I.**
Prerequisite: Art 100, 101.

Designed to meet the needs of students who wish to develop further their skill in, and understanding of, drawing.

Art 522. (Formerly Art 422). Advanced Painting. **Three hours. II.**
Prerequisite: Art 203, 204.

Designed to meet the needs of students who wish to further develop their skill in, and understanding of, painting.

Art 560. (Formerly Art 460). Art Workshop for Elementary Teachers. **Three hours.** A.

Prerequisite: Teaching Experience.

A workshop involving current art processes, motivation, recent research and publications, and the contemporary philosophies of art education in the elementary school.

Art 562. (Formerly Art 462). Aesthetics and Criticism. **Three hours.** I, II.
Prerequisite: Art 390, 391.

The study of the formal analysis, description, and criticism of works of art.

Art 563. (Formerly Art 463). Problems in Art. **Three hours. I, II.**

Designed to meet the needs of students who wish to continue certain art projects started in other courses. Problems in painting, design, ceramics, and problems in research in the arts are considered. Limited to seniors and graduate students. May be repeated twice.

GRADUATE DIVISION COURSES

Art 601. (Formerly Art 501). Art Appreciation: Great Periods and Their Influences. **Three hours.** A.

Prerequisite: Six hours in Art.

A course for graduate students who wish to pursue art study as it is applied to the examination of the arts and ideas of great periods of development in the Western World.

Art 602. (Formerly Art 502). The Art Program in the Public School. **Three hours.** A.

Prerequisite: Six hours in Art.

A study of the origin, trends, philosophy, and current practices in the art programs of the public schools. Types of programs in the elementary and secondary school will be considered and evaluated. Special attention will be given to program planning, selection, and procurement of materials and art room facilities, preparation of teaching personnel, and in-service workshops.

BIOLOGY

H. H. LaFuze, Chairman

A student may major in Biology with right of teaching certificate by taking the following courses: Biology 111, 131, 141, 221, or 242, and 471; from three to six hours in each of the following four groups of courses:

Biology 221, 242, 521, 523
Biology 515
Biology 528, 548
Biology 517, 535, 551, 554, 555

In addition he should take Chemistry 111, 112, 221 and 361; Mathematics 107 and 113; and Physics 131 and 132.

Recommended curriculum for a major in Biology with right of teaching certificate. The first two years of this curriculum may be found in the Central University College section

Third Year

First Semester	Hours	Second Semester	Hours
English 209 or 211	3	English 210 or 212	3
Biology (1)	3-5	Biology (1)	3-5
Chemistry 221	5	Physics 132	5
Physics 131	5	Education 316	2
Education 315	2	Social Science (2)	3
	18-20		16-18

Fourth Year

Chemistry 361	5	Education 364	4
Biology (1)	4-8	Education 463	10
Social Science (3)	3	Biology 471	3
Elective	0-4		
	16		17

(1) Three to six hours from each line:
Biology 221, 242, 521 and 522, 523
Biology 515
Biology 528, 548
Biology 517, 535, 551, 554, 555

(2) 3 hrs. of General Studies (Social Science) 100, Political Science 100, History 100, Geography 101, 102, 199, Anthropology 110 or Economics 230.

(3) 3 hrs. of Political Science 300 or Geography 330, 41, or 477, History 248, Economics 231.

Recommended curriculum for a Second Major in Biology with Right of Teaching Certificate.

The requirements for a second major in biology are the same biology and chemistry courses as are required for a first major in biology.

Recommended curriculum for a Minor in Biology.
Recommended curriculum for a First Major in Biology without Right of Teaching Certificate.

A student with a major in another department may take the following courses for a minor in biology: Biology 111, 131, 141, and one additional course selected from each of the following areas: morphology-anatomy, taxonomy-field, and physiology, and Chemistry 111.

A student may major in Biology-Botany-Zoology without right of teaching certificate by taking the following courses: Biology 111, 131, 141, 221 or 242, five 500-level courses selected to meet the particular needs of the student; Chemistry 111, 112, 221, 361, 570; Mathematics 107 and 113; and Physics 131 and 132.

Recommended curriculum for a major in Biology-Botany-Zoology without right of teaching certificate. The first two years of this curriculum may be found in the Central University College section.

Third Year

First Semester	Hours	Second Semester	Hours
Biology elective	3-4	English 210 or 212	3
Chemistry 221	5	Biology elective	3-4
Physics 131	5	Physics 132	5
Social Science (1)	3	Social Science (1)	3
Elective	2	Elective	3
	16-17		17-18

Fourth Year

Chemistry 361	5	Chemistry 570	5
Biology elective	5-8	Biology elective	5-8
Elective	6	Elective	6
	16-19		16-19

(1) Economics 230, 231, General Studies 248, Political Science 101, 300.

Recommended curriculum for a Second Major in Biology without Right of Teaching Certificate.

The requirements for a second major in Biology are the same biology and chemistry courses as are required for a first major.

BIOLOGY

Biology 111. (Formerly partially Biology 131 and 141.) Biology. **Four hours.** I, II.

An introduction to biology; cellular and molecular biology; general organization, physiology and ecology of organisms; growth, development and reproduction; principles of inheritance, classification and evolution. Three lectures and two laboratory hours.

Biology 131. (Formerly Biology 121, 131, 132.) Botany. **Four hours.** I, II.

The structure and functions of vascular plant organs, and morphology of representatives of the plant kingdom. Two lecture hours and four laboratory hours.

Biology 141. (Formerly Biology 141, 142.) Zoology. **Four hours.** I, II.

The general morphology and life histories of representatives of animal phyla, and the structure and function of vertebrate systems. Two lecture and four laboratory hours.

Biology 171. Human Anatomy and Physiology. **Four hours.** A.

The anatomy and physiology of the human essential to the training of nurses. Two lecture hours and four laboratory hours.

Biology 221. (Formerly Biology 303.) Microbiology. **Four hours.** I, II.

Prerequisite: Chemistry 111, 112 and Biology 111.

Study of the morphology, classification and physiology of bacteria; relation of bacteria to fermentations, foods, soil fertility, disease, and industry; methods of culture and of study, media, sterilization, staining techniques. Two lecture hours, and four laboratory hours.

Biology 242. (Formerly Biology 27, 28, 342.) Comparative Anatomy. **Five hours.** I, II.

Prerequisite: Biology 111, 141.

Chordate characteristics and taxonomy; comparative anatomy of the principle organ systems: emphasis in laboratory upon lower chordate, fish, amphibian, bird and cat. Three lecture and four laboratory hours.

Biology 272. (Formerly Biology 29, 29h, 219.) Human Physiology. **Three hours.** I, II.

Prerequisite: General Studies 162. For physical education and health majors or minors.

Functions of the human body as they relate to exercise with emphasis on the muscular, nervous, respiratory and cardiovascular systems. Two lecture hours and two laboratory hours.

Biology 273. Applied Microbiology. **Four hours.** A.

Prerequisite: Biology 171.

Microbiology for nurses; a study of microorganisms as related to health and humans, including pathogenic forms. Two lectures and four laboratory hours.

Biology 275. (Formerly Biology 25, 225.) Applied Anatomy. **Three hours.** A.

Prerequisite: General Studies 162 or Biology 111.

Anatomy of the human body with emphasis on the skeleton, muscles and nervous system and their function in physical exercise. One lecture and four laboratory hours.

Biology 279. (Formerly Biology 29, 29h, 219.) Physiology. **Three hours.** A.

Offered for home economics students. Credit does not apply toward a major in Biology.

Prerequisite: General Studies 162.

Fundamental principles of human physiology, with emphasis on the functioning of the circulatory, respiratory, digestive, and excretory systems. Three lecture hours.

Biology 370. (Formerly Biology 360.) Fundamentals of Biology I. **Four hours.** A.

General principles of biology, including studies in morphology, anatomy, physiology, ecology, heredity and evolution of plants and animals. Lecture two hours; laboratory and discussion four hours.

Biology 371. (Formerly Biology 361.) Fundamentals of Biology II. **Four hours.** A.

A continuation of Biology 370. Lecture, two hours; laboratory and discussion, four hours.

Biology 403. (Formerly Biology 310.) Human Heredity and Eugenics. **Three hours.** A.

Credit does not apply toward a major in Biology.

A study of inheritance in humans including its implications upon society and the human race. Three lecture hours.

Biology 404. (Formerly Biology 433.) Economic Plants. Three hours. A.

The economic importance of plants and plant products; the utility of plants in relation to wood products, textiles, foods, condiments, beverages, drugs, poisons; the role of plants in ornamentation, conservation and world events. Three lecture hours.

Biology 471. The Teaching of Biology. **Three hours.** I, II.

Prerequisite: 18 hours of biology and approval of head of department.

Materials and methods in teaching biology in secondary schools; modern approaches to biology; the organization, planning, directed observation, execution and evaluation of the classroom and laboratory activities; the sources, preparation, and use of biological materials; planning, construction, care and use of equipment; conduction of field trips.

Biology 498. (Formerly Biology 49, 491.) Problems in Biology. **One to four hours.** A.

Prerequisite: Departmental permission.

The individual study of special problems in biology.

Biology 511. (Formerly Biology 445.) Microtechnique. **Two hours.** I, II.

Prerequisite: Biology 111, 131, 141.

The technique of preparing plant and animal tissues for microscopic study. Four laboratory hours.

Biology 515. (Formerly Biology 35, 325.) Genetics. **Three hours. I, II.**
Prerequisite: Biology 111, 131, 141.
Laws governing inheritance, variations and evolution in plants, animals and man; the role of heredity in the improvement of cultivated plants, domesticated animals and the human race. Three lecture hours.

Biology 517. (Formerly Biology 451.) Ecology. **Three hours. I.**
Prerequisite: Biology 111, 131, 141.
The relation of plants and animals to their environment. Field trips required. Two lecture hours, three laboratory hours.

Biology 521. (Formerly Biology 421.) Morphology of Non-Vascular Plants. **Three hours. I.**
Prerequisite: Biology 111, 131.
The morphology, anatomy, reproduction, development and unusual biological activities of the algae, fungi, liverworts and mosses. One lecture and four laboratory-discussion hours.

Biology 522. (Formerly Biology 422.) Morphology of Vascular Plants. **Three hours. II.**
The morphology, anatomy, reproduction, development and geological history of psilophytes, club mosses, horsetails, ferns, cycads, conifers and flowering plants. One lecture and four laboratory-discussion hours.

Biology 523. Mycology. **Three hours. A.**
Prerequisite: Biology 111, 131.
The morphology, physiology, taxonomy and economic importance of fungi. **Four hours. A.**
Field trips are required. One lecture and four laboratory-discussion hours.

Biology 528. (Formerly Biology 32, 334.) Plant Physiology. **Four hours. A.**
Prerequisite: Biology 111, 131.
A study of the chemical, physical and biological processes which occur in vascular plants. Two lecture and four laboratory hours.

Biology 535. (Formerly Biology 30, 335.) Local Flora. **Three hours. II.**
Prerequisite: Biology 111, 131.
The identification, classification and phylogeny of vascular plants; principles of taxonomy; field trips required. One lecture and four laboratory hours.

Biology 536. (Formerly Biology 31, 336.) Dendrology. **Two hours. A.**
Prerequisite: Biology 111, 131.
The identification and classification of local trees and shrubs; key construction. Four laboratory hours.

Biology 541. (Formerly Biology 44, 441.) Invertebrate Zoology. **Four hours. A.**
Prerequisite: Biology 111, 141.
Characteristics, life histories, taxonomy, ecology and evolution of the invertebrates. Two lecture and four laboratory hours.

Biology 546. (Formerly Biology 446) Histology. **Three hours. II.**
Prerequisite: Biology 111, 141.
The microscopic study of animal tissues and an introduction to organology. One lecture and four laboratory hours.

Biology 547. (Formerly Biology 47, 347.) Embryology. **Four hours. I, II.**
Prerequisite: Biology 111, 141.
Detailed study of the embryology of the starfish, frog, and chicken, with some consideration of mammalian embryology. Two lecture and four laboratory hours.

Biology 548. (Formerly Biology 48, 481.) Animal Physiology. **Four hours. I, II.**
Prerequisite: Biology 111, 141.
Detailed study of the chemistry and physics of the physiological activities of animals. Two lecture and four laboratory hours.

Biology 551. (Formerly Biology 351.) Vertebrate Natural History. **Three hours.** II.

Prerequisite: Biology 111, 141.

Lectures, laboratory and field exercises on the taxonomy, evolution, distribution, morphology, behavior, adaptations, habits and life histories of fishes, amphibians, reptiles and mammals. One lecture and four laboratory-discussion hours.

Biology 554. (Formerly Biology 38, 344.) Ornithology. **Two hours.** A.

Prerequisite: Biology 111, 141.

Identification, anatomy, physiology, economic importance and natural history of birds. Early morning field trips will be required. One lecture, two laboratory hours.

Biology 555. (Formerly Biology 37, 343.) Entomology. **Three hours.** A.

Prerequisite: Biology 111, 141.

Taxonomy, identification, life histories, physiology, economic importance, methods of control and collection of insects, with emphasis on local forms. One lecture and four laboratory hours.

Biology 559. (Formerly Biology 45, 444.) Parasitology. **Three hours.** A.

Prerequisite: Biology 111, 141.

The morphology, life histories, epidemology and methods of diagnosis and control of animal parasites, with emphasis upon those of man and domesticated animals. Two lecture and three laboratory hours.

Biology 571. (Formerly Biology 401.) Biology for High School Teachers I. **Four hours.** A.

Prerequisite: One year of college biology.

Basic principles of botany and zoology which will be of special interest to in-service teachers of science; modern concepts and recent discoveries in biology; new approaches to biology at the high school level. Lecture two hours, laboratory and discussion four hours.

Biology 572. (Formerly Biology 402.) Biology for High School Teachers II. **Four hours.** A.

A continuation of Biology 571. Lecture two hours, laboratory and discussion four hours.

Biology 590. (Formerly Biology 490.) Experimental Biology. **Three hours.** A.

Prerequisite: Senior standing in biology and departmental approval.

An introduction to experimental procedures in biology and to the use of special instruments in biological teaching and research. Six laboratory-discussion hours.

Biology 599. (Formerly Biology 499.) Biology Seminar. **One hour,** I. II.

Prerequisite: Major in biology and five semesters of college credit.

Required of all biology majors. Members of the faculty and majors will meet weekly for presentation and discussion of classical and current developments in specialized fields of biology.

GRADUATE DIVISION COURSES

Biology 671. (Formerly Biology 511.) Biology for Elementary Teachers. **Three hours.** A.

Experiments and demonstration essential to the teaching of biological concepts of science in grades K through 6. Six discussion-laboratory hours.

Biology 681. (Formerly Biology 501.) Advanced Botany I. **Three hours.** A.

Individual study in one or two fields of botany selected to meet the specific needs of the student. Topics may be selected from such areas as anatomy, physiology, taxonomy, mycology, morphology, and ecology. Laboratory work will be stressed. Six lecture-discussion-laboratory hours.

Biology 682. (Formerly Biology 502.) Advanced Botany II. **Three hours.** A.

A continuation of Biology 681.

Biology 683. (Formerly Biology 503.) Advanced Zoology I. **Three hours. A.**

Individual study in one or two fields of zoology selected to meet the specific needs of the student. Topics may be selected from such areas as morphyology, physiology, taxonomy, ecology, invertebrate zoology, anatomy, and embryology. Laboratory work will be stressed. Six lecture-discussion-laboratory hours.

Biology 684. (Formerly Biology 504.) Advanced Zoology II. **Three hours. A.**

A continuation of Biology 683.

Biology 685. (Formerly Biology 505.) Principles of Biology I. **Three hours.** A.

A study of the basic principles of biology and the history of their development. Included may be such topics as the cell theory, evolution, anthropology, inheritance, conservation, alternation of generations, ontogeny, life, classical experiments, economics and philosophy. Three lecture-discussion hours.

Biology 686. (Formerly Biology 506.) Principles of Biology II. **Three hours.** A.

A continuation of Biology 685.

Biology 691. (Formerly Biology 571.) Research and Thesis Seminar. **Two hours.** A.

Prerequisite: Approval by chairman of biology department.

Research in biology followed by the preparation of a thesis under the guidance of a member of the biology faculty.

Biology 692. (Formerly Biology 572.) Research and Thesis Seminar. **Two hours.** A.

Continuation of Biology 691.

Biology 693. (Formerly Biology 573.) Research and Thesis Seminar. **Two hours.** A

Continuation of Biology 692.

CHEMISTRY

Ernest Bryn, Chairman

Recommended curriculum for a major in chemistry with right of teaching certificate. The first two years of this curriculum may be found in the Central University College section

Third Year

First Semester	Hours	Second Semester	Hours
Chemistry 361	5	Education 315	2
Physics 131	5	Physics 132	5
*Electives	8	*Electives	9
	18		**16**

Fourth Year

Chemistry 570	5	Education 364	4
Chemistry, elective	3	Education 463	10
Education 316	2	Science 410	3
*Electives	6		
	16		**17**

Recommended curriculum for a first major with right of teaching certificate:

Chemistry 111, 112, 221, 222, 361, 570, elective three hours.

Recommended curriculum for a first major without right teaching certificate:

Chemistry 111, 112, 221, 222, 361, 362, 471, 472, 525.

Recommended curriculum for a second major in chemistry:
Chemistry 111, 112, 221, 222, 361.

Recommended curriculum for a minor in chemistry:
Chemistry 111, 112, 221, 361.

*Third and fourth year electives must include 6 hours in upper division social science and six hours in upper division humanities.

CHEMISTRY

Recommended curriculum for a major in chemistry without the right of teaching certificate. The first two years of this curriculum may be found in the Central University College section

Third Year

First Semester	Hours	Second Semester	Hours
Chemistry 361	5	Chemistry 362	5
Foreign Language	3	Foreign Language	3
Mathematics 251	5	Mathematics 352	3
Physics 131	5	Physics 132	5
		*Elective	2
	18		18

Fourth Year

Chemistry 571	5	Chemistry 572	5
Chemistry 525	4	Foreign Language	3
Foreign Language	3	Physics, elective, upper division	3
Physics, elective, upper division	3	*Electives	7
*Elective	3		
	18		18

(Pre-medical and pre-dental students should follow the special pre-medical curriculum found elsewhere.)

Recommended curriculum for a second major in chemistry:
Chemistry 111, 112, 221, 222, 361.

Recommended curriculum for a minor in chemistry:
Chemistry 111, 112, 221, 361.

*The student must take three hours in an upper division social science course. Other elective hours should be taken in upper division courses to bring the total of upper division hours to 43.

Chemistry 104. (Formerly Chemistry 115) Chemistry for Nursing Students. **Four hours.** II.

A survey of topics in general, organic, and biological chemistry pertinent to the field of nursing. Topics include a study of the nature of matter, solutions an acidity; important functional groups of organic chemistry, carbohydrates, lipids, proteins, and their metabolism; important body fluids; radioactivity and body chemistry. Three lecture and two laboratory hours.

Chemistry 111. General Chemistry. **Four hours.** I, II.

A study of the properties of matter, changes in matter, and the laws of principles which govern these changes. Topics included are: chemical symbolism; atomic structure; periodic classification of the elements; chemical bonding; stoichiometry; the states of matter; and solution chemistry. Three lecture and two laboratory hours.

Chemistry 112. General Chemistry. **Five hours.** I, II.

A continuation of Chemistry 111. Oxidation and reduction; continued study of metals and non-metals, including the transition elements; radioactivity; electrochemistry; the collodial state; and introduction to organic chemistry. Three lecture and four laboratory hours.

Chemistry 160. (Formerly Chemistry 112b) Basic Organic and Biological Chemistry. **Five hours. II.**

Prerequisite: Chemistry 111.

An introductory course for students majoring in home economics. A study is made of the common organic functional group reactions; carbohydrates; amino acids and proteins, fats, oils, and detergents; vitamins; synthetic fibers; metabolism of carbohydrates, proteins and lipids. Three lecture and four laboratory hours.

Chemistry 221. (Formerly Chemistry 211) Qualitative Analysis. **Five hours. I.**

Prerequisites: Chemistry 111 and 112.

Reactions of cations and anions; solutions; equilibrium; oxidation and reduction; hydrogen-ion concentration and pH; complexion formation. Two lecture and six laboratory hours.

Chemistry 222. (Formerly Chemistry 212) Quantitative Analysis **Five hours. II.**

Prerequisite: Chemistry 221.

The principles and use of the analytical balance; care and use of analytical equipment; preparation of solutions, quantitative and qualitative; solubility product and laws of precipitation and solution; principles of stoichiometry; quantitative determinations of common metals and nonmetals by gravimetric, volumetric and electrolytic methods. Two lecture and six laboratory hours.

Chemistry 235. (Formerly Chemistry 300) Inorganic Preparations. **Two hours. II.**

Prerequisite: Chemistry 112.

Synthesis of simple and complex inorganic compounds illustrating distinctive procedures and techniques. Four laboratory hours.

Chemistry 361. (Formerly Chemistry 310) Organic Chemistry. **Five hours. I.**

Prerequisite: Chemistry 112.

Structural theory; hydrocarbons; carboniumion theory; benzene and resonance; aromatic compounds; introductory stereochemistry; alcohols; alkyl halides; aryl halides; ethers and epoxides. Three lecture and six laboratory hours.

Chemistry 362. (Formerly Chemistry 312) (Formerly called Advanced Organic Chemistry) Organic Chemistry. **Five hours.** II.

Prerequisite: Chemistry 361.

Carboxylic acids and derivatives, including fats and oils; sulfonic acids; amines; dazonium salts; phenols; aldehydes and ketones; glycols and dicarboxylic acids; polyfunctional carbonyl compounds; carbohydrates; amino acids and proteins; polynuclear and heterocyclic compounds. Three lecture and six laboratory hours.

Chemistry 425. Introduction to Instrumental Analysis. **Three hours.** II.

Prerequisite: Chemistry 222.

The course is designed for students of the biological sciences, medical technology and premedical students. Applications of absorption spectrometry and colorimetry will be studied along with potentiometric, electrolytic and conductometric methods. One lecture and four laboratory hours.

Chemistry 514. (Formerly Chemistry 401) Chemical Literature. **One hour.** I, II.

Prerequisite: Chemistry 361.

The students will be introduced to the use of the fundamental periodicals, abstract journals, handbooks, review series and encyclopedias of chemistry. One lecture hour.

Chemistry 520. Advanced Analytical Chemistry. **Three hours. I.**
Prerequisite: Chemistry 222.

A general survey of modern analytical methods especially with respect to the following: statistical treatment of results, errors, precision, accuracy; calibration of equipment, tolerances; sampling and preparation of samples, separation methods; standards and standard methods; instrumental techniques; references. Three lecture hours.

Chemistry 525. (Formerly Chemistry 320) (Formerly Chemistry 420) Instrumental Methods. **Four hours. I.**
Prerequisites: Chemistry 222, 361 and permission of instructor.

The principles and uses of optical and electrical instruments in analysis. Colorimetric, spectrophotometric (including infra-red), conductometric, potentiometric, polarographic and chromatographic methods and determinations, methods of nuclear chemistry. Two lecture and four laboratory hours.

Chemistry 530. (Formerly Chemistry 313) Biochemistry. **Three hours. II.**
Prerequisite: Chemistry 362.

The chemistry and metabolism of carbohydrates, proteins, lipids, and nucleoproteins and the action of vitamins, hormones, and enzymes related to cellular metabolism and body processes. Three lecture hours.

Chemistry 545. Chemistry Laboratory and Demonstration Techniques. **Three hours. A.**
Prerequisites: Six semesters of undergraduate work in chemistry or permission of instructor.

A course in the techniques of constructing and demonstrating apparatus to illustrate principles of chemistry. Primarily for high school science teachers. Two lecture and two laboratory hours.

Chemistry 550. (Formerly Chemistry 440) Advanced Inorganic Chemistry. **Three hours. I.**
Prerequisites: Three years college chemistry or permission of instructor.

Modern concepts of atomic nuclei, atomic structure, and classification of elements. Complex ions and coordination compounds. Three lecture hours.

Chemistry 555. Inorganic Preparations. **Three hours. II.**
Prerequisites: Three years college chemistry including quantitative analysis and Chemistry 550 or the equivalent.

Techniques of crystallization, distillation, furnace methods, electrolytic processes and gas handling as involved in the synthesis of alloys, oxides, salts, coordination compounds, polyacids, anomalous salts, and colloids. Six laboratory hours.

Chemistry 560. Advanced Organic Chemistry. **Three hours. A.**
Prerequisite: Chemistry 362.

Nomenclature, application of absorption spectroscopy to organic compounds, and survey of new reactions and reaction mechanisms. Three lecture hours.

Chemistry 565. Qualitative Organic Analysis. **Four hours. A.**
Prerequisite: Chemistry 362.

Identification of unknown organic substances through a systematic study of their physical and chemical properties and their chemical derivatives. One hour lecture and six laboratory hours.

Chemistry 570. (Formerly Chemistry 413) Physical Chemistry for the Biological Sciences. **Five hours. I.**
Prerequisites: College Algebra and Chemistry 111, 112, 221, 222 or equivalent.

This course is recommended for premedical students and students in the biological sciences or related disciplines. Topics to be considered are: states of matter, colligative properties of solutions, thermodynamics, equilibrium, electrochemistry, colloids, and reaction kinetics. (Chemistry majors will take Chemistry 571 and 572) Three lecture and four laboratory hours.

Chemistry 571. (Formerly Chemistry 415) Physical Chemistry. **Five hours. I.**

Prerequisites: Chemistry 222 and 361, Mathematics 352 (or concurrent enrollment therein) and one year of physics.

A study of the thermodynamic properties of physicochemical systems; free energy and equilibria; kinetic theory of gases and reaction rates; electrochemistry. Three lecture and four laboratory hours.

Chemistry 572. (Formerly Chemistry 416) Physical Chemistry. **Five hours.** II.

Prerequisites: Chemistry 571, Mathematics 352.

A study of phase equilibria; phase rule; solutions; ionic equilibria and activity; atomic and molecular structure; Boltzman distribution, partition functions and thermodynamic relations. Three lecture and four laboratory hours.

Chemistry 580. (Formerly Chemistry 450) (Formerly called Recent Advances in Chemistry) Seminar. **One Hour.** I, II.

Presentation of significant developments from the recent literature to a meeting of members of the chemistry faculty and department majors. One weekly meeting.

Chemistry 595. (Formerly Chemistry 430) (Formerly called Research in Chemistry) Introduction to Research. **Three-five Hours.** I, II.

Prerequisites: Chemistry 222 and 361.

Objectives and techniques of chemical research. Problems in analytical, inorganic, organic and physical chemistry. Nine laboratory hours.

DRAMA AND SPEECH

R. G. King, Chairman

Recommended curriculum for a major in Speech (or Speech and Drama) with right of teaching certificate. The first two years of this curriculum may be found in the Central University College section.

Third Year

First Semester	Hours	Second Semester	Hours
Education 315	3	Education 316	3
Music 271	3	Science	3
Speech 550	3	Speech 560	3
Science	3	Upper division electives	9
[1]Drama Elective	3		
[2]Speech Elective	3		
	18		18

Fourth Year

Education 364	4	[3]English Elective	3
Education 463	10	Upper Division Speech or Drama Electives	6
Speech 463	3	Upper Division Electives	6
	17		15

[1] Drama 240, 300, and 315.

[2] Speech 200, 220, 300, 335, 340, Drama 210, and Drama 230.

[3] English 209, 210, 311, 312, 350, 351, and 511.

A student who wishes to major in Speech and Drama without right of teaching certificate may substitute electives approved by his advisor for the courses in Education.

SPEECH AND DRAMA MAJOR:

30 hours in addition to Speech 100, including Speech 240, 550, 560, and Drama 100 (or 500), 110, 130, and 240.

SPEECH MAJOR:

30 hours in addition to Speech 100, including Speech 205, 220, 240, 300, 550, 560, either 335 or 400, and Drama 100 (or 500).

SPEECH AND DRAMA MINOR:

18 hours in addition to Speech 100 and Drama 100: Drama 110, 130, 240, and Speech 240, 300, 550.

SPEECH MINOR:

18 hours in addition to Speech 100, including Speech 240, 300, 550.

DRAMA MINOR:

18 hours in addition to Speech 100, including Drama 100, 110, 130, 240.

SPEECH

Speech 100. (Formerly Speech 131.) Oral Communication. **Three hours.** I, II.

The principles and practice of oral communication. The course provides the student with a study of the process of communication and an opportunity to reinforce that study through speaking.

Speech 150. (Formerly Speech 230.) The Improvement of Voice and Articulation. **Three hours.** A.

Basic theory of speech production; drills for improvement of voice and articulation; adapted to students' individual speech needs.

Speech 205. Argumentation and Advocacy. **Three hours.** I.

Prerequisite: Speech 100.

Principles and practice of argument in logical discourse with attention to research, evidence, analysis, methods of attack and defense, organization of ideas, and presentation.

Speech 215. (Formerly Speech 206.) Forensics. **One hour** (may be repeated for a total of three hours.) I, II.

Prerequisites: Speech 205 and permission of instructor.

Study and practice of discussion and debate with required participation in intercollegiate forensic activities.

Speech 220. Communication in Groups. **Three hours.** II.

Prerequisite: Speech 100.

Principles and practice of group inquiry; investigation and analysis of problems in selected group situations.

Speech 240. (Formerly Speech 341.) Oral Interpretation of Literature I. **Three hours.** I.

Basic techniques of reading aloud; evaluation and analysis of selections of prose, poetry, and drama; practice in reading aloud.

Speech 290. Introduction to Radio and Television. **Three hours.** A.

Survey of the industry. The development of broadcasting; its responsibilities and job opportunities; organization of stations and networks; federal regulation and industry codes; technical aspects of radio and television; brief consideration of programming and production techniques; field trips to area radio and television stations.

Speech 300. (Formerly Speech 231.) Forms of Public Address. **Three hours.** I, II.

Prerequisite: Speech 100.

Principles and practice of contemporary forms of public address: professional, deliberative, ceremonial, and social.

Speech 335. History and Criticism of Public Address: 20th Century Spokesmen. **Three hours.** A.

Prerequisite: Speech 100.

Study of selected twentieth century speakers; critical analysis of selected speech texts.

Speech 340. (Formerly Speech 451.) Oral Interpretation of Literature II. **Three hours.** II.

Prerequisite: Speech 240.

Advanced techniques of oral interpretation, with attention to individual problems. Each student will give a final recital program of readings.

Speech 390. Radio Production. **Three hours.** A.

Prerequisite Speech 290.

Fundamentals of the technical and artistic elements of radio production. Practical experience at the college radio station is required.

Speech 400. Persuasion. **Three hours.** A.

Prerequisite: Speech 100.

Study of the methods of influencing human belief and behavior through communication, with special attention to psychological motivation.

Speech 463. The Teaching of Speech. **Three hours.** A.

Prerequisite: A major or minor in Speech.

Study of the principles and practice of speech education and the relation of speech education to other areas, with special attention to content, materials, activities, textbooks, methods, evaluation, and problems.

Speech 550. (Formerly Speech 210). Phonetics of the English Language. **Three hours.** A.

Study of contemporary American speech through phonetic analysis; practice in broad and narrow transcription.

Speech 560. (Formerly Speech 331.) Introduction to Speech Correction. **Three hours.** A.

Prerequisite: Speech 100.

Designed to help the classroom teacher identify and deal with speech defects. Study of basic types of disorders, with emphasis on good classroom environment for the handicapped and sources of specialized help.

DRAMA

Drama 100. (Formerly Drama 222.) Introduction to Theatre. **Three hours.** I. II.

Designed to provide the student with a basis for understanding and appreciating the arts of the theatre, the course offers a survey of the development of dramatic forms and practices and a consideration of the elements of contemporary theatrical practice from the writing of the play through performance. Analysis of selected plays and attendance at selected play productions and films is required.

Drama 110. (Formerly Drama 242.) Stagecraft. **Three hours.** A.

A general survey of the problems of technical production dealing with the scenic process: use of materials, methods of construction and handling of scenery, fabrication and construction of properties.

Drama 130. (Formerly Drama 262.) Acting I. **Three hours.** A.

Training in script analysis, stage movement, characterization, vocal communication and projection, through exercises in improvisation and pantomine.

Drama 210. (Formerly Drama 243.) Stage Design. **Three hours.** A.

Prerequisite: Drama 110.

Studies in the principles and problems of scenic and lighting design through assignments in various styles and periods; practice in research and in techniques of rendering and preparation of working drawings and models; basic theories of stage lighting from a technical and aesthetic viewpoint and practice in planning of light plots for individual plays.

Drama 230. (Formerly Drama 264.) Acting II. **Three hours.** A.
Prerequisite: Drama 130.

A continuation of Acting I. During the second course, the emphasis is on scenes, culminating in the presentation of plays in class.

Drama 240. (Formerly Drama 363.) Directing I. **Three hours.** A
Prerequisite: Drama 130.

Study of the principles and techniques of play direction, with demonstrations and exercises. Includes the direction of a studio production.

Drama 310. Technical Production. **One hour** (may be repeated for a total of three hours.) I, II.

Study and practice of technical production through participation in directed departmental activities.

Drama 315. Stage Costume and Make-Up. **Three hours.** A.

The design and execution of theatrical costumes with emphasis on originality, color, line and period; training in all types of theatrical make-up.

Drama 330. Rehearsal and Performance. **One hour** (may be repeated for a total of three hours.) I, II.
Prerequisite: Drama 130.

Study and practice of acting through participation in directed departmental productions.

Drama 340. (Formerly Drama 463.) Directing II. **Three hours.** A.
Prerequisites: Drama 240, 110.

Advanced study of the principles and techniques of play direction; includes a study of directing styles, period plays, script analysis, critical discussion of production, and the direction of a studio production.

Drama 350. Play Production. **Three hours.** A.

A non-specialized course dealing with the basic elements of play production; includes play selection, casting, rehearsals, types of dramatic literature, and styles of acting, as well as elementary principles of set design and decoration, costuming, make-up, lighting, and house management. This course is primarily intended for prospective teachers who are likely to be called upon to direct dramatics activities. May be taken by speech and/or drama majors only with the consent of the instructor.

Drama 500. (Formerly Drama 300) History of Theatre. **Three hours.** A.

An intensive examination of the development of theatre from the primitive times to the present. Includes both Oriental and Occidental theatre.

Drama 540. (Formerly Drama 465, 440) Children's Theatre. **Three hours.** A.

Prerequisite: Drama 240.

The principles and practice of play production for children by adults or children, with some attention to creative dramatics.

ECONOMICS

The Department of Economics is in the College of Business and the course offerings may be found on p. 259. A student in the College of Arts and Sciences may major or minor in economics. For a major, he is required to take thirty hours which must include the following courses: Economics 230, 231, 324, 592, 593 or 450, and 497. For a minor, he is required to take eighteen hours which must include the following courses: Economics 230, 231, 324, 592, and 593 or 450.

ENGLISH

H. E. Richardson, Chairman

(English Language and Literature)

FIRST MAJOR IN ENGLISH (with right of teaching certificate):

The following English courses are required for a first major in English (with right of teaching certificate); General Studies, English: 101 (or equivalent); 102; 209 or 211; 210, 212 or 215 (or 213 or 214); 301; 350; 351; 411; 463; 504 (or 540 or 541). In addition, at least 9 hours of restricted English electives are required, selected so that a minimum of one course is taken from each of the following groups, to make a minimum total of 33 hours excluding General Studies (English) 101 and 102: Group I (521, 523, 524); Group II (321, 422, 525); Group III (312, 317, 323).

The student is also required to take 12 hours (or equivalent) of one foreign language, normally French, German, or Latin; History 341 (or 342 or 450 or 451); and Speech 131 or 231.

The first two years of this recommended curriculum may be found in the Central University College section. For the third and fourth years of study, a number of electives are available, as illustrated below:

Third Year

First Semester	Hours	Second Semester	Hours
Elective	4	Elective	3
Education 315	2	Education 316	2
English 301	3	English 411	3
English 350	3	English 351	3
General Studies 176 (or equivalent)	3	General Studies 170 (or equivalent)	3
English elective	3	English elective	3
	18		17

Fourth Year

Education 364	4	English elective	3
Education 463	10	English 504, 540, or 541	3
English 463	3	History 341, 342, 450, or 451	3
		Elective	7
	17		16

MAJOR IN ENGLISH WITHOUT RIGHT OF TEACHING CERTIFICATE

The student who wishes to major in English without right of certificate to teach may follow the curriculum for the first major given above, but substitute other courses for those in education.

AREA IN ENGLISH:

A student may take an area in English by earning a total of at least 54 semester hours including General Studies 101 (or equivalent) and 102. In general the student may follow the curriculum for a first major in English, adding at least 18 hours selected in conference with his advisor.

SECOND MAJOR IN ENGLISH:

A student with a first major in some other department may take the following courses for a second major in English: General Studies 101 (or equivalent); 102; 209 or 211; 210 or 212; 215 (or 213 or 214); 301; 350 or 351, 411; 504, 540, or 541; and one course each from any of the following groups to make a minimum of 28 hours **excluding** General Studies 101 and 102:

1. 524, 521, 523
2. 525 (formerly 425), 321, 422
3. 312, 317, 323
4. Speech 131 or Speech 231

Students with a second major in English are urged to meet the requirements in foreign language for the first major if it is possible to do so, preferably in French, German, or Latin.

MINOR IN ENGLISH:

The following courses are required for a minor in English: General Studies 101 (or equivalent); 102; 209 or 211; 210 or 212; 215 (or 213 or 214); 301; 350 or 351; 411; and one additional upper division course in literature. Students with a minor in English are urged to take Speech 131 or Speech 231 if possible.

MASTER'S DEGREE IN ENGLISH:

The English Department offers the Master's Degree in English under two options. For complete details, see the Graduate School section pp. 65-70.

ENGLISH

General Studies 101. (Formerly English 101, 10a 10b) English Composition I. **Three hours.** I, II.

Study or review of the mechanics of expression, such as grammar, punctuation, spelling, and sentence structure; word study and good usage, including close attention to the dictionary; primary emphasis on various aspects of written composition, including paragraph organization, theme organization, and presentation of written material from the student's experience, observation, reading, and study; some practice in more effective oral communication, reading, listening, and thinking.

General Studies 102. (Formerly English 102, 10b, 10c) English Composition II. **Three hours.** I, II.

Continued practice in composition; emphasis on good theme organization, outlining, longer compositions; at least one thorough library paper which employs the basic principles of research; emphasis on more advanced aspects of thinking and writing; some attention paid to matters of style; emphasis on reading and analysis, including the explication of literature, with some emphasis on poetry; acceptable usage in speaking and writing.

English 150. (Formerly English 216) Introduction to the Short Story. **Two hours.** I, A.

Readings in the modern short story from its origins in the works of Hawthorne and Poe to the present, with special emphasis on understanding and enjoying the works of major writers and their techniques.

English 151. Introduction to Dramatic Literature. **Two hours.** II, A.

Readings in selected classic and modern plays with emphasis on increased understanding and enjoyment by the student; special emphasis on such matters as structure and interpretation.

English 200. Journalism and Society. **Two hours.** A.

An introduction to mass communications; a study of newspapers, magazines, radio, television, and business and industrial publications; the history of mass communications; social, political, and economic roles in modern society; the periodicals and journalistic literature. (May be taken by freshmen with special permission of the instructor.)

English 201. Journalism, Newswriting. **Two hours.** A.

Prerequisite: General Studies 101 (or equivalent) and 102.

Practice in news gathering and writing; background study of the nature of newspapers and other media; student writing for publication in the campus newspaper.

English 202. Journalism, Feature Writing. **Two hours. A.**

Prerequisite: General Studies 101 (or equivalent) and 102.

(Desirable for students to take English 201 before English 202.)

Practice in writing feature stories for newspapers and magazines; background study of professionally written features; writing procedure; free-lance markets; writing designed for publication in newspapers and magazines.

English 209. Survey of English Literature I. **Three hours.** I, II.

Prerequisite: General Studies 101 (or equivalent) and 102.

English literature from **Beowulf** through the eighteenth century; special attention paid to cultural movements and their continental backgrounds, and to such masters as Chaucer, Shakespeare, Spenser, Milton, Donne, Dryden, Pope, Swift, and Johnson.

English 210. Survey of English Literature II. **Two hours.** I, II.

Prerequisite: General Studies 101 (or equivalent) and 102.

English literature from the Romantics to the present; special attention paid to literary, scientific, and philosophical movements, and to such major writers as Blake, Wordsworth, Keats, Tennyson, Browning, Hardy, Shaw, Yeats, Joyce, and Eliot.

English 211. (Formerly English 218, 21a.) Survey of World Literature I. **Three hours.** I, II.

Prerequisite: General Studies 101 (or equivalent) and 102.

Selections from the great masterpieces of Greek and Latin poetry, drama, history, and philosophy; selections from Oriental, Hebrew, and Mohammedan literature; selection from medieval myth, saga, and romance; selections from the literature of the Renaissance.

English 212. (Formerly English 219, 21c) Survey of World Literature II. **Three hours.** I, II.

Prerequisite: General Studies 101 (or equivalent) and 102.

Selections from continental, English and American literature; types of literature, such as poetry, drama, short story, essays; the study of the writings of outstanding authors of the various periods of literature; literary background and criticim.

English 213. Survey of Biography. **Three hours.** A.

Prerequisite: Generial Studies 101 (or equivalent) and 102.

History, development, and survey of selected readings in biography from Plutarch's **Lives** in the first century, A. D., to the present; special emphasis on the various types of biography, one of the most ancient and popular forms of literary art.

English 214. (Formerly English 314) The Novel as Genre. **Three hours.** A.

Prerequisite: General Studies 101 (or equivalent) and 102.

Development and survey of the English novel and the American novel from their beginnings to the early twentieth century; selected readings and discussion of the different types of novels with attention paid to such matters as history, structure, technique, and influence.

English 215. Poetry as Genre. **Three hours.** A.

Prerequisite: General Studies 101 (or equivalent) and 102.

Readings in selected poems with major emphasis on understanding and enjoying poetry as a genre; special emphasis on such aspects as metrics, figures of speech, various poetic devices, the explication of poems, and an increased knowledge of the various types of techniques of poetry, the oldest and highest form of literary art.

English 301. Advanced Composition and Rhetoric. **Three hours.** I, II.

Prerequisite: General Studies 101 (or equivalent) and 102.

Study of grammar and rhetoric in relation to writing; emphasis on expository writing; examination of organization, content, and style in selected readings and student papers; special attention given to the organizaion, outlining, and composition of a thorough research paper on a topic related to an appropriate phase of English.

English 303. Journalism Practice I. (May be repeated three times.) **One hour.** A.

Prerequisite: General Studies 101 (or equivalent) and 102.

Supervised laboratory work in the medium of newspaper communication; practical experience on the staff of a weekly newspaper; study of techniques; analysis of problems; at least two meetings each week for evaluation of work.

English 304. Journalism Practice II. (May be repeated three times.) **One hour.** A.

A continuation of English 303.

English 307. Journalism, Editorial Writing. **Two hours.** A.

Prerequisite: English 200, 201, 202, or English 301.

Instruction and practice in writing editorials, letters to the editor, columns, and interpretative articles on subjects of the student's choice; reading and analysis of editorial writing and practices; student writing designed for publication in the campus newspaper and other newspapers and periodicals; studies of the editorial pages of campus and metropolitan newspapers.

English 312. (Formerly English 33) Modern Drama. **Three hours.** A.

Prerequisite: General Studies 101 (or equivalent), 102, and two courses in literature.

Ibsen and his influence; the free theater and the new drama on the continent; naturalism and expressionism; the independent theater and the revival of England; the Abbey Theater and the Irish Renaissance; American imitators of the European drama; the little theater movement; Eugene O'Neill and the repertory theater; experimental drama.

English 317. (Formerly called Contemporary Literature) The Modern Novel. **Three hours.** A.

Prerequisite: General Studies 101 (or equivalent), 102, and six hours of literature.

British and American novels of the twentieth century since 1920; new authors, new influences, new trends; form, quality, content of the twentieth century novel; history and development of the novel of the twentieth century; critical study of selected novels; some consideration of novels of other nations; extensive reading of novels.

English 319. (Formerly English 461, 40) Kentucky Literature. **Three hours.** II, A.

Prerequisite: General Studies 101 (or equivalent), 102, and two courses in literature.

The economic, political, social, and religious background of the early Kentuckians as expressed in their writings; antebellum literature; the influence of the Civil War; the rise of local color fiction; the revival of poetry; present-day writers and tendencies; ballads; seventeenth century survivals in the native idiom; opportunity for students to become familiar with the John Wilson Townsend Collection.

English 321. (Formerly English 37a) (Formerly Poetry and Prose of the Romantic Period) The Age of Wordsworth and Keats. **Three hours. I, A.**

Prerequisite: General Studies 101 (or equivalent), 102 and two courses in literature.

Primary emphasis on the rise, development, and culmination of the poetry of the Romantic Period; special attention paid to the work of selected pre-romantics and such masters of the period as Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats.

English 323. Modern Poetry. **Three hours. II, A.**

Prerequisite: General Studies 101 (or equivalent), 102, and six hours of literature.

Major British and American poets of the twentieth century; form and content of modern poetry; analysis, interpretation, and criticism of modern poetry; special studies; writing of poetry by the students.

English 350. (Formerly English 318, 36) American Literature I. **Three hours.** I, II.

Prerequisite: General Studies 101 (or equivalent), 102, and two courses in literature.

From the beginnings to the mid-nineteenth century. Emphasis on major writers of the Colonial, Revolutionary, National, and Romantic (symbolism, transcendentalism) Periods; selected treatment of the works of Cooper, Bryant, Poe, Hawthorne, Melville, Emerson, Thoreau, and others.

English 351. (Formerly English 318) American Literature II. **Three hours.** I, II.

Prerequisite: General Studies 101 (or equivalent) 102, and two courses in literature.

From Whitman to the moderns. Emphasis on the following literary movements: local color, regional realism, psychological investigation, impressionism, and existentialism; selected treatment in depth of Whitman, Dickinson, Twain, James, Crane, Dreiser, Hemingway, Faulkner, O'Neill, Frost, Eliot, and others.

English 411. (Formerly English 311, 32a, & 32b) Shakespeare. **Three hours.** I, II.

Prerequisite: General Studies 101 (or equivalent), 102, and two courses in literature.

Elizabethan England as a background for the Shakespearian drama; early Elizabethan drama; Elizabethan theories of comedy and tragedy; development of Shakespeare's dramatic genius; problems of authorship, chronology, and texts; the great comedies, histories, and tragedies; rapid reading of many plays and more careful study of a few of the great plays.

English 420. (Formerly English 320) The Local Colorists and the Regional Realists. **Three hours.** A.

Prerequisite: General Studies 101 (or equivalent) 102, and two courses in literature.

The rise of local color and regional realism; survey of the movements from the beginnings to the present in the United States; attention paid to the literature of such regions as Kentucky, the South, and other areas as the instructor elects.

English 422. (Formerly English 322, 37b) Poetry and Prose of the Victorian Period. **Three hours. II, A.**

Prerequisite: General Studies 101 (or equivalent), 102, and two courses in literature.

Social ideals, political principles, religious concepts, scientific theories, and cultural changes as mirrored in the non-fiction of such Victorian writers as Macaulay, Carlyle, Newman, Mill, Spencer, Arnold, Huxley, Ruskin, Stevenson, and Pater. The poetic cycle from Tennyson to Housman, reflecting the religious faith and doubt, social reform and unrest, estheticism, and scepticism of the period.

English 425. (Formerly English 325) The Old Testament as Literature. **Three hours.** A.

Prerequisite: General Studies 101 (or equivalent) 102, and two courses in literature.

Selected readings in the Old Testament: (1) the books of history and law, from Genesis through Nehemiah; (2) the prophets, in chronological order; the study of each in relation to his times; (3) the remaining third part of the Canon—the wisdom of its literature; emphasis upon its dramatic poetry, lyric poetry, and masterful short narrative.

English 426. The English Lyric. **Three hours.** A.

Prerequisite: General Studies 101 (or equivalent), 102, and two courses in literature.

A consideration of the English lyric from the Middle Ages to modern times; the reading and study of lyric poems by various English poets.

English 463. Teaching of High School English. **Three hours.** I, II.

Prerequisite: A major or minor in English.

This course, designed for students who are to do student teaching in English, deals with objectives of high school English; critical analysis and selection of textbooks, activities, and materials; review and application of educational principles and psychology of learning to the studying and teaching of high school English; different methods and techniques of teaching the various phases of high school English—speech, written composition, grammar, and literature; study of various methods of teaching by observing good teaching; interrelationship of English to other high school subjects and activities; study of various methods and plans of teaching; standards of achievement for high school English; evaluation; extracurricular activities for the English teachers; planned programs of instruction.

English 502. (Formerly English 402) Seminar in Creative Writing. **Three hours.** II, A.

Prerequisite: General Studies 101 (or equivalent), 102, and two other English courses; permission of the director of the course.

A course open to those students who have a desire to have their manuscripts criticized before being submitted for publication; fiction, drama, poetry, biography, or the informal essay accepted; guest lectures by and discussion with writers-in-residence as available.

English 503. (Formerly English 403) Creative Writing Conference. **One hour.** A. (May be repeated twice for a total of three hours.)

Prerequisite: General Studies 101 (or equivalent), 102; permission of the director of the course.

A one-week course of fifteen informal lectures and discussions led by Eastern faculty members and visiting lecturers; special conference and counseling; criticism of student writing; lectures on modern creative art and artists; reading from their own work by visiting authors; discussions of the problems of composition and publication. Each student must submit a short story, or a one-act play, or four poems, or the equivalent.

English 504. (Formerly English 404) Semantics. **Three hours.** A.

Prerequisite: General Studies 101 (or equivalent), 102, and two courses in literature.

An examination of the basic principles underlying the influence of language on human action and interaction; special emphasis on the relationship between semantics, composition, and literature; course includes a brief introductory unit on the history of the English language.

English 505. (Formerly English 565) Seminar in the Structure of English. **Three hours.** A.

Prerequisite: General Studies 101 (or equivalent), 102, at least two courses in literature; upper division or graduate status; recommendation of advisor.

A course for advanced students based upon the examination of various structural approaches to English and their application; emphasis on new approaches to grammar and rhetoric, e.g., a study of grammar from linguistic and conventional views and the application of these views to the teaching of literature and composition in terms of both grammar and rhetoric; theories and backgrounds in transformational, contrastive, structural and descriptive linguistics, generative grammar, and their applied aspects.

English 521. (Formerly English 421) Renaissance and Elizabethan Literature. **Three hours.** I, A.

Prerequisite: General Studies 101 (or equivalent), 102, and two courses in literature.

Spirit of the Renaissance; influence of Italian and other continental literatures; early English humanists; Elizabethan enthusiasm; the Elizabethan language; new literary influences; chief literary forms; Spencer and Elizabethan poetry; the great sonneteers; Sidney and criticism; Bacon and scientific writing; the Shakesperian poetry; Ben Jonson, Drayton, and Daniel; prose fiction; Elizabethan drama.

English 522. English Poetry and Prose of the Seventeenth Century Exclusive of Milton. **Three hours.** A.

Prerequisite: General Studies 101 (or equivalent), 102, and two courses in literature.

Donne and the metaphysicals; the Cavalier poets; Jonson and the "Sons of Ben"; readings in the prose of such writers as Donne, Jonson, Sir Thomas Browne, Jeremy Taylor, Izaak Walton, and Robert Burton; special attention paid to prose and poetic styles.

English 523. (Formerly English 423) Milton and His Age. **Three hours.** A.

Prerequisite: General Studies 101 (or equivalent), 102, and two courses in literature.

The historical background; life of Milton as it affected his writings; his earlier poetry; development of his genius; the great epic **Paradise Lost** and its interpretation; **Paradise Regained** and **Samson Agonistes**; other selected writers of the period and their works.

English 524. (Formerly English 424, 44) Chaucer. **Three hours.** II, A.

Prerequisite: General Studies 101 (or equivalent), 102, and two courses in literature.

Major emphasis on the works of Chaucer.

English 525. (Formerly English 425) The Age of Dryden, Pope, and Johnson. **Three hours.** II, A.

Prerequisite: General Studies 101 (or equivalent), 102, and two courses in literature.

Social backgrounds of neo-classicism; Restoration drama as a reaction against Puritanism; Dryden and the rise of the critical spirit; Pope and the Augustans; the literary dictatorship of Dr. Johnson; new techniques of the pre-romantic writers.

English 534. The Nineteenth Century English Novel. **Three hours.** A.

Prerequisite: General Studies 101 (or equivalent), 102, and two courses in literature.

A study of the great nineteenth century English novelists from Austen through Hardy, with emphasis on such writers as Scott, Dickens, the Brontes, Thackeray, Eliot, Meredith, Trollope, and other novelists of the period.

English 540. (Formerly English 440) Applied Grammar and Linguistics. **Three hours.** A.

Prerequisite: General Studies 101 (or equivalent), 102, and at least six additional hours in English.

Includes an introductory unit in the history of the English language; a study of grammar and its application to various aspects of composition, such as style, variety of sentence patterns, logic, precision, and lucidity; the study of English through linguistic analysis, including phonemics, morphemics, and tactics; additional emphasis on para-linguistic elements, socio- linguistics, psycholinguistics, the "New Rhetoric," and elements of non-verbal communication; some attention given to the totalistic implications of various systems.

English 541. (Formerly English 441, 47) History and Structure of the English Language. **Three hours.** A.

Study of the history of the English language in terms of the social, historical, and linguistic forces from which it developed into modern English; special emphasis upon the Indo-European family of language as it has evolved through the Old English, Middle English, and Modern English periods.

English 547. Age of Emerson. **Three hours.** A.

Prerequisite: General Studies 101 (or equivalent), 102, and two courses in literature.

Study of the prose and poetry of the American Renaissance (1832-1870), with emphasis on the writings of Emerson and his circle; Thoreau, Hawthorne, Melville, Whitman, and Dickinson as their work relates to the period.

English 550. Realism and Naturalism in American Fiction. **Three hours.** A.

Prerequisite: General Studies 101 (or equivalent) 102, and two courses in literature.

Study of the development of the realistic novel in the nineteenth century and the rise of naturalism in the early twentieth, with special emphasis upon the social and philosophical problems of the age as represented in the works of such writers as Howells, James, Garland, Norris, Crane, Dreiser, and others.

English 560. Continental Fiction. **Three hours.** A.

Prerequisite: General Studies 101 (or equivalent), 102, and two courses in literature.

Western non-English novels and novellas in translation; a consideration of great western fiction from Cervantes to the present; emphasis upon such writers as Tolstoy, Dostoevski, Turgeniev, Hugo, Stendhal, Balzac, Flaubert, Dumas, Manzoi, and Sienkiewicz.

English 565. Greek and Roman Drama as Literature. **Three hours.** A.

Prerequisite: General Studies 101 (or equivalent), 102, and two courses in literature.

Brief study of dramatic criticism, the theory of tragedy, and the Greek and Roman theater; wide reading of plays by Aeschylus, Sophocles, Euripides, Aristophanes, Plautus, and Seneca.

GRADUATE DIVISION COURSES

English 601. (Formerly English 501) Bibliography and Research. **Three hours.** A.

Work in critical theory and practice with attention to bibliography and library resources. Each student is expected to compile an extensive bibliography and to write a thorough research paper on a subject or author of his or his professor's choice.

English 611. (Formerly English 511) The Development of English Drama to 1642. **Three hours.** A.

Medieval liturgical drama; early miracle plays and the guild cycles; morality plays and interludes; early Tudor Renaissance drama; the development of the Elizabethan theater to the Stuart dramatists.

English 615. (Formerly English 515) English Criticism. **Three hours. II, A.**

A study of the development of English criticism from its beginnings to the end of the nineteenth century. Foreign influences in English criticism; changing conceptions of the criteria of criticism; the great critics and their works.

English 626. (Formerly English 526) Early and Middle English Literature. **Three hours. I, A.**

Selection of major literary works of the Old English and Middle English Periods. Emphasis on **Beowulf**, selected Old English poetry, **Sir Gawain and the Green Knight, The Pearl**, the Middle English lyric, **Piers Plowman**, Malory's **Morte d'Arthur**, and other works, not including Chaucer.

English 632. Seminar in the Age of Tennyson and Browning. **Three hours. I, A.**

Primary emphasis on the poetry of Tennyson and Browning; additional selected readings and studies in English literature from 1832 to the twentieth century, with secondary emphasis on such masters as Carlyle, Newman, Ruskin, the Rossettis, Arnold, Pater, Swinburne, and Hardy.

English 646. (Formerly English 546) Seminar in American Fiction. **Three hours. I, A.**

Treatment of sources and origins of American fiction in relation to the English novels of the mid-eighteenth century; early American novels; examinations of fiction of the United States during the nineteenth and twentieth centuries, with special emphasis on the works of major writers of the twentieth century.

English 647. Seminar in Hawthorne and Melville. **Three hours. A.**

Extensive study of the major novels; the Puritan background and influence; structure and symbolism in the novel; criticism and evaluation, with attention to the themes of the period.

English 648. Seminar in Whitman and Dickinson. **Three hours. A.**

Extensive study of the poetry of Whitman and Dickinson as "New Voices in American Literature" in relation to the poetic styles of nineteenth-century America; attention to such matters as influences on and sources of Whitman and Dickinson; their influence on later poets.

English 649. Seminar in Twain and James. **Three hours. A.**

Studies in the work of both writers and the comparison of and contrast between the two, representing respectively unique traits of the West and East in their time.

English 652. Seminar in Faulkner and Hemingway. **Three hours. A.**

Studies in the work of the two Nobel Prize winners, with special emphasis on sources and influences, style, techniques, and the similarities and differences of selected works.

English 660. The Epic. **Three hours. A.**

Homer and the epic tradition; the **Aeneid**; the **Divine Comedy; Orlando Furioso; Jerusalem Delivered; Paradise Lost**; anonymous epics; the **Cid**; the **Song of Roland**; the **Nibelungenlied, the Kalevala.**

English 686. Literature in Relation to the History of Ideas. **Three hours. A.**

Studies in the history of ideas as related to literature, with emphasis on philosophical approaches to English and American literature.

English 687. Studies in Sources and Influences. **Three hours. A.**

An investigation of the sources and influences which have affected the works, styles, philosophies, and points of view of American and English writers—e.g., the influence of Greek mythology upon James Joyce, or **The Old Yellow Book** as the source for Robert Browning's **The Ring and the Book.**

English 690. Special Studies. **One to three hours. A.**

Independent research and writing designed to fulfill the individual needs and interests of advanced students; studies directed by a professor in the student's field of concentration; credit ranges from one to three hours and is determined by the extent and excellence of the student's work.

English 691. Special Studies. **One to three hours. A.**
A continuation of English 690.

English 692. (Formerly English 592) Graduate Seminar in Shakespeare. **Three hours. A.**
Selected concentration on the tragedies, comedies, historical dramas, and poetry; treatment of special studies on Shakespeare.

English 698. Thesis I. **Three hours. A.**

English 699. Thesis II. **Three hours. A.**

FOREIGN LANGUAGES

J. Hunter Peak, Chairman

A student may take an area in Foreign Languages by earning a total of at least 48 semester hours in two different languages. It is recommended that, where feasible, additional hours be taken in one of the languages to total thirty hours. At least 24 semester hours must be taken in each language. A recommended curriculum follows:

First emphasis in Spanish — with right of teaching certificate.

Second emphasis in French — with right of teaching certificate.

The first two years of this curriculum may be found in the Central University College section

Third Year

First Semester	Hours	Second Semester	Hours
Art 200	3	Education 316	2
Education 315	2	French 304	3
French 303	3	Music 271	3
General Studies 281	3	General Studies 170	3
General Studies 176	3	Spanish 310 or 410	3
Spanish 309 or 409	3	Elective	3
	17		17

Fourth Year

French 405	3	Education 364	4
French 309 or 409	3	Education 463	10
Spanish 405	3	Spanish 463	3
Spanish 495	3		
Elective	3		
	15		17

The student who wishes to major in Foreign Languages without right of certification may follow the curriculum suggested above, substituting other courses for those in Education.

Three hours of mathematics or three hours in other natural sciences may be taken instead of one of the science courses listed in the foreign language curriculum.

FRENCH

A student may major in French by taking a minimum of 24 hours in French. A student may take a minimum of 18 semester hours for a minor in French.

French 101. Elementary French. **Three hours.** I, II.
Pronunciation; grammar; conversation in French on material studied. One hour per week in language laboratory is required for all beginning students.

French 102. Elementary French. **Three hours.** I, II.

Prerequisite: French 101 or one unit of high school French.

Continuation of grammar study begun in French 101 and oral work based on reading material. One hour per week in language laboratory is required for all beginning students.

French 201. Intermediate French. **Three hours.** I, II.

Prerequisite: French 101 and 102 or two units of high school French.

Grammar review. Selected prose readings. Laboratory attendance required.

French 202. Intermediate French. **Three hours.** I, II.

Prerequisite: French 201 or three units of high school French.

Continuation of French 201. Laboratory attendance required.

French 206. (Formerly French 407) Intermediate Conversation. **Three hours.** II.

Prerequisite: French 202 or equivalent: or French 201 and permission of instructor. Laboratory attendance required.

French 303. Introduction to French Literature. **Three hours.** I.

Prerequisite: Two years of college French or the equivalent. Required of all majors. Beginnings through the Eighteenth Century.

French 304. Introduction to French Literature. **Three hours.** II.

Prerequisite: Two years of college French or the equivalent. Required of all majors. Nineteenth and Twentieth Centuries.

French 309. (Formerly French 301.) French Prose. **Three hours.** A.

Prerequisite: French 303 and 304.

An intensive study of French prose from Beginnings through Eighteenth Century.

French 310. (Formerly French 302.) French Prose. **Three hours.** A.

Prerequisite: French 303 and 304.

An intensive study of French prose of Nineteenth and Twentieth Centuries.

French 405. (Formerly French 404.) Advanced French Composition. **Three hours.** I.

Prerequisite: French 202 and consent of instructor.

Required of all French majors.

French 409. (Formerly French 401.) French Drama and Poetry. **Three hours.** A.

Prerequisite: French 303 and 304.

An intensive study of French drama and poetry from Beginnings through Eighteenth Century.

French 410. (Formerly French 402.) French Drama and Poetry. **Three hours.** A.

Prerequisite: French 303 and 304.

An intensive study of French drama and poetry of the Nineteenth and Twentieth Centuries.

French 463. Teaching of High School French. **Three hours.** II.

Prerequisite: A major or minor in French or an Area in Foreign Languages.

This course, designed for students who will be student teachers in French deals with the objectives of high school French; critical analysis, and selection of text books, activities and materials; review and application of educational principles and psychology of learning to the studying and teaching of high school foreign languages; different methods and techniques of teaching the various phases of high school foreign languages—listening, speaking, reading, writing; training in the operation of the language laboratory; study of various methods of teaching by observing good teaching; study of various plans of teaching; standards of achievement for high school foreign languages; evaluation; extracurricular activities for the foreign languages teachers; planned program of instruction.

French 495. (Formerly French 395) Independent Work in French. **Three hours.** I, II.

Prerequisite: French 303 and 304. (French majors only)

Permission of Department Chairman. May be repeated once.

GERMAN

A student may major in German by taking a minimum of 24 hours in German.

A student may take a minimum of 18 semester hours for a minor in German.

German 101. Elementary German. **Three hours.** I, II.

The essentials of grammar with practice in pronunciation, reading, writing, and some easy conversation. One hour per week in language laboratory is required for all beginning students.

German 102. Elementary German. **Three hours.** I, II.

Prerequisite: German 101 or one high school unit of German.

Continuation of German 101 with more advanced exercises in reading, writing, and comprehension of spoken German. One hour per week in language laboratory is required for all beginning students.

German 201. Intermediate German. **Three hours.** I, II.

Prerequisite: German 102 or permission of instructor.

Continuation of the elementary course on a more advanced level. One hour per week in language laboratory is required for all intermediate students.

German 202. Intermediate German. **Three hours.** II.

Prerequisite: German 201 or the equivalent and approval of the instructor.

Continuation of 201. Certain selected texts are read with emphasis on translation and grammar.

German 206. (Formerly German 407) Intermediate Conversation. **Three hours.** II.

Prerequisite: German 201 or equivalent, or with permission of instructor. Conversation and composition for majors. May be taken with German 202.

German 303. Survey of German Literature. **Three hours.** I.

Prerequisite: German 202 and approval of instructor.

Introduction to the major works in each period of German literature.

German 304. Survey of German Literature. **Three hours.** II.

Prerequisite: German 303 or equivalent and approval of the instructor. Continuation of 303.

German 405. Advanced German Composition. **Three hours.** I.

Prerequisite: 18 hours of college German or the equivalent and the approval of the instructor.

A study of the finer points of German grammar, morphology and syntax. Written and oral reports on assigned reading outside of classroom.

German 463. Teaching of High School German. **Three hours.** II.

Prerequisite: A major or minor in German or an Area in Foreign Languages.

This course, designed for students who will be student teachers in German deals with the objectives of high school German; critical analysis, and selection of text books, activities and materials; review and application of educational principles and psychology of learning to the studying and teaching of high school foreign languages; different methods and techniques of teaching the various phases of high school foreign languages—listening, speaking, reading, writing; training in the operation of the language laboratory; study of various methods of teaching by observing good teaching; study of various plans of teaching; standards of achievement for high school foreign languages; evaluation; extracurricular activities for the foreign languages teachers; planned program of instruction.

German 495. (Formerly German 395) Independent Work in German. **Three hours.** I, II.

Prerequisite: Three years of college German or the equivalent and the consent of the Department Chairman. For majors only. May be repeated once.

LATIN

A student may major in Latin by taking a minimum of 24 hours in Latin. A student with a major and a minor in other departments may take 18 semester hours for a minor in Latin.

Latin 101. (Formerly Latin 115 and 10.) Elementary Latin. **Three hours.** I.

Pronunciation: declension of nouns, adjectives, and pronouns; indicatives; infinitives; simple uses of subjunctive verbs; acquisition of the fundamental principles of the language; ability to read simple Latin prose dealing with Roman home life, mythology, and Roman history.

Latin 102. (Formerly Latin 116 and 11.) Elementary Latin. **Three hours.** A.

Prerequisite: One unit of high school Latin or Latin 101.

Caesar and a wide range of authors of equal difficulty; vocabulary; inflection, syntax, and their application to English; collateral reading on Roman history and society; training in the understanding of Latin in the Latin order.

Latin 201. (Formerly Latin 12.) Selections from Cicero and Ovid. **Three hours.** A.

Prerequisite: Two units of high school Latin or Latin 102.

Selections from the works of Cicero, Ovid, Pliny, and others; continued emphasis on mastery of vocabulary and syntax; emphasis on the relation of Latin to English; comparison of the government of the Roman Republic to that of democracies of the present day.

Latin 202. (Formerly Latin 205 and 13.) Selections from Vergil's Aeneid. **Three hours.** A.

Prerequisite: Two or three units of high school Latin or Latin 201.

Selections from Aeneid of Vergil; study of the Augustan age; study of metrical form and structure of the poem; continued emphasis on Latin inflection and constructions.

Latin 301. (Formerly Latin 15.) Selections from Livy. **Three hours.** A.

Prerequisite: Three units of high school Latin or the equivalent.

Survey of Roman history from the foundation of Rome to the close of the second Punic War; assigned readings from such historians as Mommsen, Heitland, and others; comparative study of Rome and Carthage; critical study of Livy's style.

Latin 302. (Formerly Latin 16.) Selections from Horace. **Three hours.** A.

Prerequisite: Three units of high school Latin or the equivalent.

Selected odes, epodes, and satires from Horace; study of the Augustan age from both a literary and political point of view; study of Horace's philosophy; various meters employed by Horace.

Latin 303. (Formerly Latin 22.) The Writing of Latin Prose. **Three hours.** A.

Prerequisite: Latin 301 or the equivalent.

Selections from the text, "Arnold's Latin Prose"; review of syntax, sight reading.

Latin 304. (Formerly Latin 23.) The Latin Dramatists. **Three hours.** A.

Prerequisite: Latin 301 or the equivalent.

Dramas of Plautus, Terence, and Seneca; two plays of Plautus for intensive study; rapid reading of other representative plays.

Latin 401. (Formerly Latin 41.) Latin Prose of the Silver Age. **Three hours.** A.

Prerequisite: Latin 302 or the equivalent.

Letters of Pliny the Younger; selections from the writings of Tacitus.

Latin 402. (Formerly Latin 32.) Satire and Epigram. **Three hours.** A.

Selected satires of Juvenal; selected epigrams of Martial; development of satire in Latin literature with assignments from Horace; satire in English; epigram as a literary expression.

Latin 403. (Formerly Latin 31.) Latin Literature of the Early Empire. **Three hours.** A.

Prerequisite: Latin 302 or the equivalent.

The Oxford University Press text—selections compiled by A. C. B. Brown. The selections from a connected and contemporaneous discussion of politics, education, literature, philosophy, social types, and town and country life.

Latin 404. (Formerly Latin 30.) Literature of the Late Republic. **Three hours.** A.

Prerequisite: Latin 302 or the equivalent.

Selections from the works of Caesar, Sallust, Nepos, and Cicero with emphasis on Ciceronian prose as a basis of much of the thinking and writing since his day; selections from works of poets of this age with emphasis on the works of Catullus and Lucretius.

Latin 405. (Formerly Latin 42.) Roman Private Life. **Three hours.** A.

Lectures, discussions, and readings on Roman family, home, marriage, education, clothing, food, amusements, travel, religion, town and country life.

Latin 463. The Teaching of Latin. **Three hours.** II.

For students planning to teach Latin.

This course will deal with objectives, content, and methods of teaching Latin in junior and senior high school; analysis and selection of text books, aural and visual aids, and testing both for prognosis and achievement.

Latin 495. (Formerly Latin 395.) Independent Work in Latin. **Three hours.** I, II.

Prerequisite: Two years of college Latin or the equivalent and the consent of the Department Chairman. For majors only. May be repeated once.

RUSSIAN

A student may major in Russian by taking a minimum of 24 hours in Russian.

A student with a major and a minor in other departments may take a minimum of 18 semester hours for a minor in Russian.

Russian 101. Elementary Russian. **Three hours.** I.

Elements of the language studied through grammar, pattern practice, drills, reading, and conversation. In addition to the three hours spent in class each student is required to work a minimum of one hour per week in the language laboratory.

Russian 102. Elementary Russian. **Three hours.** II.

Prerequisite: Russian 101 or equivalent and the approval of the instructor.

Continuation of Russian 101. Grammar and required reading of Russian literature in translation; required laboratory attendance.

Russian 201. Intermediate Russian. **Three hours.** I.

Prerequisite: Six hours of college Russian or equivalent and the approval of the instructor.

For majors and minors in Russian. Continuation of Russian grammar, with emphasis on vocabulary building and conversation. Reading selections from Russian prose, poetry, and politics (newspapers and magazines). Oral reports and discussion of texts. Laboratory one hour per week.

Russian 202. Intermediate Russian. **Three hours.** II.

Prerequisite: Nine hours of college Russian or equivalent and approval of the instructor.

Continuation of Russian 201. Laboratory one hour per week.

Russian 206. (Formerly Russian 407.) Intermediate Conversation. **Three hours.** II.

A course designed to be taken simultaneously with Russian 202, with permission of instructor. The course will put special stress on pronunciation and conversation. This class will be limited in size to permit individual attention. One hour of laboratory per week.

Russian 303. Survey of Russian Literature. **Three hours.** I.

Prerequisite: Twelve hours of college Russian or equivalent and the approval of the instructor.

Continuation of lower courses on a more advanced level. Selected readings from Pushkin, Gogol, Turgenev, Chekov and others. Assigned readings in English on Russian history, culture, and civilization. One hour laboratory per week.

Russian 304. Survey of Russian Literature. **Three hours.** II.

Prerequisite: Fifteen hours of college Russian or the equivalent and the approval of the instructor.

Readings from the time of Tolstoy and Dostoevsky to the present. Laboratory required.

Russian 405. Advanced Composition. **Three hours.** A.

Prerequisite: Russian 202 and consent of instructor.

Morphology and syntax of Russian grammar. Study of composition and stylistics. Laboratory required.

Russian 495. (Formerly Russian 395.) Independent Work in Russian. **Three hours.** I, II.

Prerequisite: Three years of college Russian or the equivalent and the consent of the Department Chairman. For majors only. May be repeated once.

SPANISH

A student may major in Spanish by taking a minimum of 24 hours in Spanish.

A student with a major and a minor in other departments may take 18 semester hours for a minor in Spanish.

Spanish 101. Elementary Spanish. **Three hours.** I, II.

Grammar; pronunciation; reading of basic Spanish. One additional hour per week in language laboratory.

Spanish 102. Elementary Spanish. **Three hours.** I, II.

Prerequisite: Spanish 101 or one unit of high school Spanish.

A continuation of Spanish 101.

Spanish 201. Intermediate Spanish. **Three hours.** I, II.

Prerequisite: Spanish 101 and 102, or two units of high school Spanish.

Review of grammar. Selected materials about Spain and Latin America. Representative short stories of authors throughout the Spanish-speaking world.

Spanish 202. Intermediate Spanish. **Three hours.** I, II.

Prerequisite: Spanish 201 or three units of high school Spanish. Continuation of Spanish 201.

Spanish 206. (Formerly Spanish 407.) Intermediate Conversation. **Three hours.** II.

Prerequisite: Spanish 202 or equivalent, or Spanish 201 and permission of instructor. Required for all Spanish majors.

Spanish 303. Introduction to Spanish Literature. **Three hours.** I.

Prerequisite: Two years of college Spanish or the equivalent.

Middle Ages through the Eighteenth Century. Required for all Spanish majors.

Spanish 304. Introduction to Spanish Literature. **Three hours.** II.

Prerequisite: Two years of college Spanish or the equivalent.

Nineteenth and Twentieth Centuries. Required for all Spanish majors.

Spanish 309. (Formerly Spanish 301.) Spanish Prose. **Three hours.** A.

Prerequisite: Spanish 303 and 304.

An intensive study of Spanish prose from the Middle Ages through the Eighteenth Century.

Spanish 310. (Formerly Spanish 302.) Spanish Prose. **Three hours.** A.

Prerequisite: Spanish 303 and 304.

An intensive study of Spanish prose of the Nineteenth and Twentieth Centuries.

Spanish 405. Advanced Composition. **Three hours.** I.
Prerequisite: Spanish 202 and consent of instructor.
Required for all Spanish majors.

Spanish 409. (Formerly Spanish 401.) Spanish Drama and Poetry. **Three hours.** A.
Prerequisite: Spanish 303 and 304.
An intensive study of Spanish drama and poetry from the Middle Ages through Eighteenth Century.

Spanish 410. (Formerly Spanish 402.) Spanish Drama and Poetry. **Three hours.** A.
Prerequisite: Spanish 303 and 304.
An intensive study of Spanish drama and poetry of the Nineteenth and Twentieth Centuries.

Spanish 412. Seminar. Special Problems of Spanish Literature. **Three hours.** A.
Members of the Staff. Open to senior majors with permission of Department Chairman.

Spanish 414. Seminar. Special Problems of the Spanish Language. **Three hours.** A.
Members of the Staff. Open to senior majors with permission of Department Chairman.

Spanish 463. Teaching of High School Spanish. **Three hours.** II.
Prerequisite: A major or minor in Spanish or an Area in Foreign Languages.
This course, designed for students who will be student teachers in Spanish deals with the objectives of high school Spanish; critical analysis, and selection of text books, activities and materials; review and application of educational principles and psychology of learning to the studying and teaching of high school foreign languages; different methods and techniques of teaching the various phases of high school foreign languages—listening, speaking, reading, writing; training in the operation of the language laboratory; study of various methods of teaching by observing good teaching; study of various plans of teaching; standards of achievement for high school foreign languages; evaluation; extra-curricular activities for the foreign languages teachers; planned program of instruction.

Spanish 495. (Formerly Spanish 395.) Independent Work in Spanish. **Three hours.** I, II.
Prerequisite: Spanish 303 and 304.
For the exceptional student (Spanish major only). Permission of Department Chairman. May be repeated once.

GEOGRAPHY

Joseph R. Schwendeman, Jr., Chairman

Recommended curriculum for a major in Geography with right of teaching certificate. The first two years of this curriculum may be found in the Central University College section.

Third Year

First Semester	Hours	Second Semester	Hours
Education 315	2	Education 316	2
Geography 330	3	Geography 373	3
Geology 200	4	Geography 571	3
Health 201	3	Music 271	3
Electives	6	Electives	5
	18		16

Fourth Year

Geography Elective	3	Education 364	4
Electives	13	Education 463	10
		Social Science 466	3
	16		17

GEOGRAPHY AND GEOLOGY

Recommended curriculum for a major in Geography and Geology without right of teaching certificate. The first two years of this curriculum may be found in the Central University College section.

Third Year

First Semester	Hours	Second Semester	Hours
Geography 330	3	Geography 373	3
Geography 372	3	Geography 571	3
Geology 305	3	Geography 573	3
Music 271	3	Health 201	3
Electives	5	Electives	5
	17		17

Fourth Year

Geography 575	3	Electives	17
Geology 507 or 574	3		
Electives	11		
	17		17

EARTH SCIENCE

Recommended curriculum for a major in Earth Science without right of teaching certificate. The first two years of this curriculum may be found in the Central University College section.

Third Year

First Semester	Hours	Second Semester	Hours
Biological Science	3	Geography 202	3
Geology 304	3	Geology 506	3
Geology 507	3	Mathematics 321	3
Health 201	3	Psychology 211	3
*Elective in Humanities	3	*Elective in Humanities	3
Elective	3	Elective	3
	18		18

Fourth Year

Geology 401	3	Electives	16
Electives	13		
	16		16

*Restrictive elective to include six hours chosen from the following courses: Art 200, Art 390, Art 391, Art 392, Drama 300, Foreign Language six hours, Music 271, Music 371, Music 372, History 498, History 499.

EARTH SCIENCE

Recommended curriculum for a second major in Earth Science with right of teaching certificate. A first major must be selected from one of the sciences or mathematics. The first two years of this curriculum may be found in the Central University College section.

Third Year

First Semester	Hours	Second Semester	Hours
Geography 202	3	Education 315	2
Geology 304	3	Geology 506	3
Psychology 211	3	Geology Elective	3
Biological Science	3	Health 201	3
Major	5 or 6	*Humanities Elective	3
		Major	5
	17 or 18		19

Fourth Year

Education 316	2	Education 364	4
Geology 507 or Geology Elective	3	Education 463	10
*Humanities Elective	3	Science 410	3
Mathematics 321	3		
Major	5 or 6		
	16 or 17		17

*Humanities elective to include six hours chosen from the following courses: Art 200, Art 390, Art 391, Art 392, Drama 300, Foreign Language six hours, Music 271, Music 371, Music 372, History 498, History 499.

Recommended curriculum for a major in Geography with right of teaching certificate.

A student may major in Geography with right of teaching certificate by completing the following courses in Geography: 101, 102, 202, 221, 271, 330, 373, 571, 3 hours elective in Geography, and Geology 200.

Recommended curriculum for a major in Geography and Geology without right of teaching certificate.

A student may major in Geography and Geology without right of teaching certificate by completing the following courses: Geography 101, 102, 202 or 271, 221, 330, 372, 373, 571, 573, and 575. Geology 200, 305, and 507 or 574.

Recommended curriculum for a major in Earth Science without right of teaching certificate.

A student may major in Earth Science without right of teaching certificate by completing the following courses: Geology 200, 304, 305, 401, 506, and 507; Geography 202; Chemistry 111 and 112; Mathematics 107, 113, and 321; and Physics 131 and 132.

Recommended curriculum for a second major in Earth Sciences with right of teaching certificate. A first major must be selected from one of the sciences or mathematics.

A student may take a second major in Earth Science by completing the following courses: Geology 200, 304, 305, 506, 507 or elective, and 13 hours electives in Geology; Geography 202; Chemistry 111 and 112; Mathematics 107, 113, and 321; and Physics 131 and 132.

Recommended Curriculum for a Second Major in Geography

A student with a major in another department may take the following courses for a second major in Geography: Geography 101, 221, 271, 372, 373, 571, Geography Elective, six hours.

Recommended Curriculum for a Minor in Geography and Geology (With emphasis in Geography)

A student may take the following courses for a minor in Geography and Geology: Geography 101, 221, 372, 373, 571, Geology 108 or 200, and Geology Elective, three hours.

Recommended Curriculum for a Minor in Geography and Geology (With emphasis in Geology)

A student may take the following courses for a minor in Geography and Geology: Geology 108 or 200, 305, 401, 506 or 599, 507, 574, Geography 101, and Geography Elective, three hours.

Recommended Curriculum for a Minor in Geology

A student may minor in Geology. For secondary certification the minor must be taken in conjunction with a major or minor in another science or mathematics. Recommended curriculum: Geology 200, 304, 305, 401, 506 or 599, 507. Supporting science: Chemistry 111, 112; Mathematics 107, 113; Geography 202.

Recommended Curriculum for a Minor in Earth Science (With or Without right of teaching certificate)

The following courses are required for a minor in Earth Science: Geography 202; Mathematics 321; Twelve hours of Geology, including one course in field geology. Supporting courses: three courses in Chemistry and Physics; Mathematics 107, 113. For secondary certification the minor must be taken in conjunction with a major or minor in another science or mathematics.

GEOGRAPHY AND GEOLOGICAL SCIENCES

GEOGRAPHY

Geography 101. (Formerly Geography 10.) Principles of Geography: Elements and Factors. **Three hours.** I, II.

The field of modern geography; earth as a member of the solar system; earth's form and movements; geographical elements; elements of weather; climates of earth; the biotic factors; the physiographic factors; edaphic and pedalogic factors; the mineral factors; the hydrographic factors; the spatial factors; the social factors; the geographic unit; geographic tools; a brief history of the changing aspects of geography.

Geography 102. Principles of Geography; Regions and Cultures of the World. **Three hours.** I, II.

Prerequisite: Geography 101.

The nature of regional cultural geography; regions of the continents; geographic patterns of mankind; population problems; man and his environment; human development of races, religions, governments, industries, institutions, occupations and activities; geography of cities; urban and rural groups; problems of today and tomorrow.

Geography 199. Introduction to Physical Geography. **Three hours.** I, II.

The geographic grid and its projections; seasons and time; solar radiation and air temperatures; air pressure and winds; moisture, clouds, and precipitation; cyclonic storms, air masses, weather fronts; climate classifications and climatic regimes; soil water and the water balance; equatorial and tropical climates; middle-latitude climates; polar, arctic, and highland climates; soils and soil-forming processes; the great soil groups; structure and environment of vegetation; distribution of natural vegetation; landforms and earth materials; the earth's crust; the wasting of slopes; runoff and ground water; landforms made by streams; the cycle of landmass denudation; landforms made by glaciers; landforms made by waves and currents; landforms made by wind; coastal plains, horizontal strata, domes: folds, faults, and fault blocks; crystalline masses and volcanic forms.

Geography 202. (Formerly Geography 20.) Climatology. **Three hours.** I, II.

Weather and weather observation; elements of climate; climate regions of the world—a study of climate as affected by the physical factors of sun, mountains, land and water; changes in temperature, pressure, winds—direction and force; humidity; cloud phenomena, precipitation, and the major types of storms; forecasting; the climatic regions of the world; weather conditions and their relation to human activities.

Geography 221. (Formerly Geography 21.) Economic Geography. **Three hours.** I, II.

The analysis of man's use of landscape features to provide himself with a functional economic system. The range of systems includes subsistent and commercial activities; pre-industrial through post-industrial, and rural and urban economic functions. These systems will be analyzed through the theory and methodology of geography including landscape organization, measurement and evaluation of spatial characteristics and their variations, and the intra-regional and extraregional connections among systems.

Geography 271. (Formerly Geography 22.) Geography of Anglo-America. **Three hours.** I, II.

Prerequisite: Geography 101 or 102.

A detailed analysis of the United States and Canada based on the physical and cultural landscapes of this culture region. Emphasis is placed on topical features such as topography, climate, drainage patterns, agriculture, urbanization as well as on regional features such as New England, Great Plains, Inland Empire, Great Lakes, and the Megalopolis.

Geography 300. (Formerly Geography 30.) Geography of the South. **Two hours.** I.

Prerequisite: Geography 101 or 102.

The South, yesterday and today; the advancing South; the physical landscape; the cultural landscape; the major regions; the people of the South; the races and their distribution and problems; transportation facilities; agriculture, its development, its regions, its problems, and possibilities; power resources; mineral wealth; forest resources; manufacturing and industries; comparison of rural and urban communities of the South; the South's future.

Geography 330. (Formerly Geography 23 and 230.) World Democracy and Geopolitics. **Three hours.** A.

Geopolitics; the ideological conflict; backgrounds of nationalism; the global war and strategy; social factors; economic factors; political factors; physical factors; religion and war; educational impacts; cultural factors; health and physical fitness; land and ocean warfare; military factors; diplomacy and war; after war, what?

Geography 372. (Formerly Geography 32.) Geography of Europe. **Three hours.** I.

Prerequisite: Geography 101 or 102.

The general geographic setting of Europe as a whole; the physiography, climate, economic and political geography of each of the major countries; European trade and commerce; the geographic advantages and handicaps of the various European countries that have resulted from the changes in boundaries that followed the World Wars.

Geography 373. (Formerly Geography 33.) Geography of Latin America. **Three hours.** A.

Prerequisite: Geography 101 or 102.

International importance of Latin America; growing interest of the United States in Latin America; historical geography of discovery, settlement and development; Caribbean resources; the Panama Canal; South America in world trade; population distribution; transportation facilities; climatic and physiographic regions; economic geography of the Pampas, the Amazon Basin, Central Mexican Plateau; the Llanos, Andean Highlands.

Geography 476. Australia and Oceania. **Three hours.** A.

Prerequisite: Geography 101 or 102.

Physiography; climates; populations; economic and industrial activities; political relationships and problems; native and European cultures of the Pacific World; the locational factors of this area in peace and war.

Geography 477. (Formerly Geography, 44.) Conservation of Natural Resources. **Three hours.** A.

History of the conservation movement; the forest resources; soil depletion and restoration; the land resources; the fertilizer resources; water origin and supply; water power; irrigation and reclamation; navigation; the mineral resources; the mineral fuels; coal, petroleum, natural gas; the metallic resources: iron, copper, lead, gold, zinc, aluminum, silver, uranium and radium; the human resources; agricultural outlook.

Geography 571. (Formerly Geography 40, 471.) Geography of World Problems. **Three hours.** A.

Prerequisite: Six hours of geography.

Geography and the evolution of nations; the expansion of Europe; European influence in world affairs; economic resources; the British Empire and its many problems — India, Egypt, Ireland, South Africa; geography and problems of major nations of the Orient; Islamism; Russia, past and present; Europe in Africa; the problems of the Far East.

Geography 573. (Formerly Geography 41, 473) Geography of Asia. **Three hours.** I.

Prerequisite: Geography 101 or 102.

The structure of Asia; the physiography of Asia; the climates of Asia; the vegetation of Asia; the population of Asia; the exploration and exploitation of Asiatic countries by European nations; Asia's position in the world; the agricultural resources of Asia; summary of the economic resources of Asia; Turkey; Arab Asia; the Iranian Plateau; India; Burma; Ceylon; Southeastern Asia; the East Indies; China; Japan; Asiatic Russia; growing interest of the United States in Asia; the geographic advantages and disadvantages of the continent.

Geography 574. (Formerly Geography 474) Geography and Geology of Kentucky. **Three hours.** I, II.

Kentucky, its regions, climate, waters, soils, agriculture, occupations, manufacturing, cities, and natural resources. Regional geology and specific treatment of cave areas, natural bridges, Cumberland Falls, Cumberland Gap, Lake Cumberland, Kentucky Lake, Big Bone Lick, and river features. The future of Kentucky and its geographic and geologic associations.

Geography 575. (Formerly Geography 43, 475) Geography of Africa. **Three hours.** A.

Prerequisite: Geography 101 or 102.

Structure; physiography, climate, vegetation; population; exploration; exploitation; position in world affairs, agricultural and economic resources; transportation; climatic and physiographic regions; foreign trade and foreign interests; comparisons and contrasts with other continents; the geographic advantages and disadvantages; changes resulting from the World Wars and post-war conditions; present-day problems and their geographic background.

GRADUATE DIVISION COURSES

Geography 600. (Formerly Geography 500) Historical Geography. **Three hours.** A.

Prerequisite: 12 hours of Social Science or 6 hours of Geography.

The geography of the world and the United States in the past; the relations between earth's conditions and resources on the one hand, and the historical development of nations on the other; the adjustments of nations and peoples to varied environments; the evolution of the environmental relationships of the people in selected areas of the world; evolutionary geography.

Geography 601. (Formerly Geography 501) Geography in Education. **Three hours.** A.

Prerequisite: 12 hours of Social Science or 6 hours of Geography.

A survey of geography in the present day school systems of the world from the elementary school to the university; examination and comparison of courses of study; objectives; outlines; offerings and problems; evaluation of departments; geographic literature; equipment; books; magazines; and other materials; the place of geography in the service of the nations.

Geography 602. (Formerly Geography 502) Urban Geography. **Three hours.** A.

Prerequisite: 12 hours of Social Science or 6 hours of Geography.

A survey of the rise of urbanism throughout the world; an intensive study of the problems of the cities of America with all their growing pains; megalolopis; metropolitan centers; municipal problems; shopping centers; planning and replanning of cities; rehabilitation developments; community housing; the location and size of cities; the hinterland; the major characteristics of cities.

Geography 607. (Formerly Geography 507) World Regional Geography. **Three hours.** A.

Prerequisite: Departmental permission.

A study of the major culture regions of the world with emphasis on areal relationships; the processes which shape and are responsible for the areal distribution of cultural landscape features; recognition and appreciation of the personality of the major world cultural regions; and the concepts associated with the structure and continual change of the culture regions.

Geography 608. (Formerly Geography 508.) Physical Geography. **Three hours.** A.

Prerequisite: Departmental permission.

A study of the forces and processes which modify the landscape; stress is placed on the integral functional relationships of these various phenomena which collectively shape our physical world; heat budget, water budget, landform classification, edaphic factors, and botanical associations.

Geography 609. (Formerly Geography 509) Geography Seminar. **Two hours.** A.

Prerequisite: Departmental permission.

Individual study of special problems in geography.

Geography 610. (Formerly Geography 510) Geography Seminar. **Two hours.** A.

Prerequisite: Departmental permission.

Continuation of Geography 609.

Geography 611. (Formerly Geography 511) Geography Seminar. **Two hours.** A.

Prerequisite: Departmental permission.

Continuation of Geography 610.

GEOLOGY

Geology 108. Principles of Geology. **Three hours.** I, II.

A course in general geology including the study of common minerals and rocks, geological processes, and a brief discussion of historical geology. This course is designed primarily for non-science majors. Two lecture and two laboratory hours. (Credit is not given for both Geology 108 and 200.)

Geology 200. Elementary Geology. **Four hours.** I, II.

An introductory course in geology. Elementary map interpretation and study of various phases of geology such as weathering, erosion, structure, vulcanism, and mountain building; introduction to mineral and rock classification. Includes one field trip. Three lecture and two laboratory hours.

Geology 304. Field Geology. **Three hours.** A

Prerequisite: Geology 200.

An introduction to field methods involving the identification and tracing of formations; geologic mapping; and fossil study. One lecture and four hours of field work.

Geology 305. Historical Geology. **Three hours.** II.

Prerequisite: Geology 108 or 200.

The course deals primarily with the history of the earth and involves certain aspects of astronomy, anthropology, and biology in addition to geology. Elementary laboratory exercises and lecture material which treats the origin of the earth and mountains; history and origin of the North American continent; the geologic time table; evolution and classification of plants and animals; laboratory recognition of the major groups of plants and animals. Two lecture and two laboratory hours.

Geology 310. Mineralogy. **Three hours.** A.

Prerequisite: Geology 108 or 200.

A systematic study of minerals with special emphasis on crystallography, atomic structure, and mineral and rock associations. The identification of minerals by physical properties, blowpipe analysis. Work with the contact goniometer, crystal blocks, crystal drawing, and field trips. Two lecture and two laboratory hours.

Geology 311. Hydrology and Hydrography. **Three hours.** A.

Prerequisite: Geology 108 or 200.

The constitution of water, physical properties, chemical characteristics, distribution, circulation, the hydrologic cycle, snow, ice, evapotranspiration, photosynthesis. Occurrence of water, effects of geology and topography on supply, physical and chemical changes produced by water on and in the earth, work done by water: (erosion, transportation, deposition), runoff, underground water, mineral deposition in fractures, pores and the formation of minerals in the sea, soil moisture, lakes, streams, glaciers. Utilization of water by man, contamination and treatment, radioactivity, domestic uses, industrial uses, hydroelectric power, reclamation, irrigation, water supply engineering. Two lecture and two laboratory hours.

Geology 312. Principles of Stratigraphy. **Three hours.** A.

Prerequisite: Geology 108 or 200.

This course considers the environments of deposition of sediments, sedimentary processes, basic stratigraphic relations, facies and facies change, the interpretation of specific lithotopes, sedimentary rock nomenclature and a consideration of types of deposits, correlation of strata, classification system for stratigraphic units and discussion of broad patterns of the distribution of sedimentary rocks. Two lecture and two laboratory hours.

Geology 401. Elementary Structural Geology. **Three hours.** A.

Prerequisite: Geology 200 and Mathematics 113.

An introductory course in structural geology. A detailed analysis is made of earth structure in reference to genetic classification and the relationship to the earth's mineral wealth. Two lecture and two laboratory hours.

Geology 506. (Formerly Geology 306) Geomorphology. **Three hours.** I, II.

Branch of science that deals with the surface features of the globe, their form, nature, origin, and development, and the changes they are undergoing. Designed to introduce geology to the teacher with emphasis on current geologic interests and findings. Some elementary map interpretation of landforms. Two lecture hours and two laboratory hours.

Geology 507. (Formerly Geology 307) Economic Geology. **Three hours.** I.

Prerequisite: Geology 108 or 200.

The application of geology to mineral materials. A summary of modern knowledge about where and how our valuable mineral resources are formed by nature. Non-geological background material to give the beginner an appreciation of minerals (Metallic, nonmetallic, and fuels) and their importance to mankind. Two lecture and two laboratory hours.

Geology 509. (Formerly Geology 309) Invertebrate Paleontology. **Three hours.** A.

Prerequisite: Geology 305

The classification and morphology of fossil invertebrates. The anatomy, structure of exoskeleton and endoskeleton, nomenclature, evolution, ecology, and geologic history of fossil invertebrates including protozoa, porifera, coelenterata, vermes, echinodermata, bryozoa, brachiopoda, mollusca, and anthropoda. Methods of fossilization and preservation. Observations and collections will be made in the field. Two lecture and two laboratory hours.

Geology 574. (Formerly Geology 474) Geography and Geology of Kentucky. **Three hours.** I. II.

Kentucky, its regions, climate, waters, soils, agriculture, occupations, manufacturing, cities, and natural resources. Regional geology and specific treatment of cave areas, natural bridges, Cumberland Falls, Cumberland Gap, Lake Cumberland, Kentucky Lake, Big Bone Lick, and river features. The future of Kentucky and its geography and geologic associations. Same as Geography 574.

Geology 599. (Formerly Geology 399) Earth Science. **Three hours.** I, II.
The solar system and the heavenly bodies with their distances, motions and the laws which control them; the air and its effects on weather, its motions and their effects, its elements and its controls; a brief study of the earth, its topography, structure, origin, and the forces which activate it.

HEALTH

Charles T. Hughes, Chairman

Second Major in Health and Safety Education[1]

The following courses make up the curriculum for a second major in health and safety education:

Required: Health 202; 300; 315; 364; 365, or 366; Biol. 221*, 272 (17 hours)
Electives: Health 316, 365, 366, 400, 480, Home Ec. 310, Biol. 515 (choose 4 hours)
Safety Required: Health 425, 485, 486 (9 hours)

[1] This second major is being offered on a trial basis. It is open to students in the teacher certification program.

*Biology 221 has as prerequisites Chemistry 111, 112 and Biology 111.

Minor in Health Education

The following courses make up the curriculum for a minor in health education:

Required: 202; 315; 364; 365 or 366; 425 (11 hours)
Electives: 300, 316, 365 or 366, 400, 480, Home Ec. 310, Biol. 272 (7 hours)

HEALTH

Health 202. (Formerly Health 20) Safety and First Aid. **Two hours.** I, II.
This course is designed to prepare the student to meet emergencies in the school room, on the playground, on the athletic field, and in everyday life. The Standard Red Cross Certificate is awarded to those students completing the requirements of this course. Safety instruction in also included.

Health 300. Introduction to Health Profession. **Two hours.** I, II.
Special emphasis will be placed on the history of public and school health, principles and concepts of health, relationships between health, wellness, ageing, infections and diseases, biostatistics, and the attainment of a realistic philosophy of health. Concern will be with the development of understanding, attitudes and practices that lead to more healthful living. A review of careers and job opportunities in the health fields.

Health 315. Community Health Problems. **Two hours.** I, II.
This course emphasizes the place of the school in solving community health problems. Special consideration is given to maintaining safe and sanitary water and milk supplies, restaurant sanitation, and sewage disposal.

Health 316. Administration of Public Health. **Two hours.** II.
Prerequisite: Health 315.
Planning and organizing the public health program, selection of personnel and materials, directing and evaluating public health services at the county, state, and federal levels. Ways of influencing and changing public opinion and behavior, and organization of health councils will also be considered.

Health 364. The Organization of the School Health Program. **Two hours.** I, II.

A detailed study of the three phases of the school health program: health services, healthful school living, and health instruction. Consideration is given to coordinating school and community efforts in maintaining child health.

Health 365. Elementary School Health Education. **Two hours.** I, II.

A study of the characteristics and health needs of elementary school students. A health education curriculum for grades 1-6 is developed. This curriculum includes a detailed study in theory, content, resources, evaluation, and presentation in health education.

Health 366. Secondary School Health Education. **Two hours.** I, II.

A study of the characteristics and health needs of secondary school students. A health education curriculum for grades 7-12 is developed. This curriculum includes a detailed study in theory, content, resources, evaluation, and presentation in health education.

Health 400. Family Health Education. **Two hours.** I.

A comprehensive study of marriage and the resulting family, both as a significant phenomenon of the culture, and as a probable personal concern of students. Emphasis on those areas where knowledge and adjustment are crucial for a happy marriage — dating, courtship and mate selection, finances, child rearing, sex, reproductive process, religion and interpersonal relations with other family members. Concepts and principles applicable to instruction of these topics will be stressed.

Health 410. Care and Prevention of Athletic Injuries. **Two hours.** I, II.

Problems of athletic injuries as they concern the coach. Discussion, demonstration, and practical experiences in the care and prevention of athletic injuries.

Health 425. Safety Education. **Three hours.** I, II.

Designed to present facts and information essential for a better understanding of the cost, in money and human suffering, of accidents in home, industry, school, traffic, farms, and during recreational activity. Included is the establishment of personal activities and practices which may reduce accidents.

Health 480. Mental Health. **Three hours.** I, II.

Study of human behavior; the basic needs for positive mental health; personality growth and development; and emotional problems of children and youth.

Health 485. Teacher Preparation in Driver Education. **Three hours.** I, II.

Critical analysis of traffic accidents, attitude factors, essential knowledge of automobile operation, and traffic laws and regulations. Includes introduction to labortory experiences; the use of psychophysical testing and the development of driving proficiency.

Health 486. Administration and Supervision of Driver Education. **Three hours.** II.

This course deals with professional preparation for secondary school instruction in this field. Primary areas of study include classroom and in-car teaching techniques. Additional background information and content materials are given. Time is devoted to the problems of organization and administration of driver education on the secondary level. Emphasis is placed on scheduling, public relations, and competence in transferring knowledge and skills, as well as inspiring satisfactory attitudes in students.

Health 488. Workshop in School Health Services. **Three hours.** A.

A study of school health services, and the relationship to the total health and school program. This course includes a detailed study in theory, evaluation techniques, and followup procedures in the health screening program.

Health 497. Workshop in Health Instruction. **Three hours.** A.

This course will be sponsored by Eastern in cooperation with the State Department of Health. The purpose will be to study health problems, review health materials, and to plan and develop a curriculum guide for health instruction in grades 1-12.

HISTORY

George Robinson, Chairman

A student may major in History with right of teaching certificate by completing the following courses: History 202, 203, 448, 449, 466, 3 hours non-restricted elective in History, 6 hours elective in U.S. History, and 6 hours elective in non-U.S. History.

Recommended curriculum for major in history with one minor in another subject and with right of teaching certificate. The first two years of this curriculum may be found in the Central University College section.

Third Year

First Semester	Hours	Second Semester	Hours
Education 315	2	Education 316	2
Non-U.S. History Elective	3	Non-U.S. History Elective	3
U.S. History Elective	3	U.S. History Elective	3
Science 310	3	Geology 399	3
Elective (minor)	6	Elective (minor)	6
	17		17

Fourth Year

History 448	3	Education 364	4
History 449	3	Education 463	10
Elective (minor)	6	History 466	3
History Elective	3		
Elective	2		
	17		17

First Major in History (with one minor)

(without right of teaching certificate)

The student who wishes to major in history, without receiving certification to teach, may follow the curriculum for the first major given above, but must substitute other courses, including six more hours of foreign language, for those in Education and for History 466. The non-teaching first major requires a minimum of 12 hours in one modern language.

Second Major in History

(with and without teaching certificate)

For a second major in history the student must take the same history courses as those required for a first major. The foreign language requirement is deleted for a second major.

Minor in History

(with and without teaching certificate)

For a minor in history the student is required to take the following courses: History 202, 203, and twelve hours of upper division electives in History.

History and Social Science

The student who wishes to take an area in history and social science with the right of teaching certificate must take the following courses: History 202, 203, 448, 449, 498, 499, 6 hours elective U.S. history, and 6 hours elective in non-U.S. History; Economics 230 and 3 hours upper division Economics; Geography 101 and 3 hours upper division Geography; Political Science 101 and 3 hours upper division Political Science; and Sociology 231 and 3 hours upper division Sociology.

Recommended curriculum for an area in history and social science with right of teaching certificate for third and fourth years. The first two years of this curriculum may be found in the Central University College section.

Third Year

First Semester	Hours	Second Semester	Hours
U. S. History Elective	3	U. S. History Elective	3
Non-U.S. History Elective	3	Non-U.S. History Elective	3
Sociology 231	3	History 498	3
Upper Division Geography	3	Sociology 332	3
Education 315	2	Geology 399	3
Science 310	3	Education 316	2
	17		17

Fourth Year

History 499	3	Education 364	4
History 448	3	Education 463	10
History 449	3	History 466	3
Upper Division Political Science Elective	3		
Upper Division Economics Elective	2		
	17		17

The student who wishes to take an area in history and social science without the right of teaching certificate may follow the curriculum given above, but must substitute other courses for those in Education and History 466. The non-teaching area requires a minimum of 12 hours in one foreign language.

Recommended curriculum for an area in history and social science without the right of teaching certificate in the third and fourth years. The first two years of this curriculum may be found in the Central University College section.

Third Year

First Semester	Hours	Second Semester	Hours
U. S. History Elective	3	U. S. History Elective	3
Non-U.S. History Elective	3	Non-U.S. History Elective	3
Sociology 231	3	Elective	3
Upper Division Political Science Elective	3	Sociology 332	3
Geography	3	Geography	3
Science 310	3	Geology 399	3
	18		18

Fourth Year

History 448	3	History 449	3
History 498	3	History 499	3
Upper Division Economics Elective	3	Upper Division Economics Elective	3
Upper Division Political Science Elective	3	Upper Division Political Science Elective	3
Elective	3	Elective	3
	15		15

HISTORY

History 202. American History to 1877. **Three hours.** I, II.

Discovery, exploration and conquest by nations; colonization; colonial wars; alienation of the colonies from England and eventual revolution; establishment of government and development of nationalism; westward movement; Jacksonian democracy and reform; the slavery controversy; Civil War and reconstruction.

History 203. American History since 1877. **Three hours.** I, II.

Rise of industrialism; problems of the American farmer; social and cultural advance; the last American frontier; American imperialism; the World Wars; the Progressive movement and the New Deal; America as a great power since World War II.

History 339. Medieval Civilization. **Three hours.** A.
Prerequisite: General Studies 246 and 247.

A survey of Western Civilization, Byzantine, and Saracenic cultures from the breakdown of the Roman Empire until the emergences of the modern national states.

History 340. (Formerly 30 and 241) European History from 1300 to 1815. **Three hours.** A.

Renaissance Reformation; rise of the national state and royal absolutism; decline of manorialism; rise of capitalism and the mercantile system; the British revolutions of the seventh century; international rivalries; the age of reason and enlightened despotism; the French Revolution and Napoleon.

History 345. English History to 1603. **Three hours.** I.

Significance of English History; Roman Britain; Anglo-Saxon Civilization; the Normans and Angevins; Norman Feudalism; growth of royal power; English Common Law; baronial opposition to the Crown; rise of Parliament; medieval government and administration; the Hundred Years' War; York vs. Lancaster; transition from medievalism; the Tudor Monarchy; the Reformation; Parliamentary progress; the Elizabethan Age.

History 346. English History from 1603 to the Present. **Three hours. II.**

The early Stuarts and the national crisis; the Civil War and Interregnum; the later Stuarts; Imperial expansion and intellectual ferment; the Hanoverian Era; Parliamentary and Cabinet government; beginnings of industrialization; impact of the French Revolution and Napoleonic Wars; the Age of Reform; Victorian Liberialism and culture; Industrialization and the advance of Democracy; from Empire to Commonwealth; two World Wars and after; decline of British power.

History 347. (Formerly History 40) Recent and Current World History, 1914 to the present. **Three hours.** A.

World War I.; the peace settlement of 1919; the problems of security; war debts; and reparations; the disintegration of the peace settlement; World War II.

History 352. (Formerly covered in part by History 348) Modern and Contemporary Latin America. **Three hours.** A.

Social, political, and economic developments in Latin America since World War II.

History 432. American Constitutional History. **Three hours.** A.
Prerequisite: History 202 and 203 or the consent of the instructor.

Origins of the Constitution; John Marshall's impact; the sectional conflict and the Constitution; the Constitution and the triumph of capitalism; the industrial crisis and a Constitutional revolution.

History 441. (Formerly 341) (Formerly covered in part by History 341). English History in the Medieval Era (500-1485). **Three hours.** A.

Significance of Medieval English History; the Roman background; original institutions of the Anglo-Saxons; the struggle for political unity; the Norman conquest; the growth of royal authority; the feudal reaction and the rise of parliament; constitutional developments in the late medieval era; the disintegration of medieval institutions.

History 448. (Formerly History 55a and 448a) Topics in History and Social Science. **Three hours.** I, II.

Prerequisite: History 202, 203, General Studies 246, 247.

This course is designed to introduce students to the elements of research in social science and history and to develop facility of expression in writing. Selections of topics for study will be made on the basis of the previous training and special interests of the students participating. Topics may be selected in American or European history or in economics, government, or sociology.

History 449. Readings in History. **Three hours.** I, II.

This course is designed to introduce undergraduates to the most important literature in the various historical fields. Fields vary from semester to semester according to the specialties of instructors teaching the course.

History 461. (Formerly History 46) Kentucky History. **Three hours.** I, II.

General, social, economic, and political history of Kentucky; her influence in the development of American democracy; her periods of leadership in the nation; her educational system; Kentucky's great men and women; historical sources of Kentucky.

History 466. (Formerly Social Science 466) Teaching of the Social Studies in the Secondary School. **Three hours.** I, II.

A study of the trends and objectives of the social studies; the techniques involved in the learning process; materials, both basic and supplementary, to enrich the teaching; the various methods of teaching; evaluation of the learning processes; understanding of the social studies as they develop civic competence and an understanding of social relations.

History 501. American Colonial Period. **Three hours.** A.

Political and social history of the thirteen colonies and their neighbors; European background, settlement, and westward expansion; intercolonial conflicts; beginnings of culture; and colonial opposition to imperial authority; meets Colonial History optional requirement.

History 502. (Formerly History 402) The American Revolution and the Constitution. **Three hours.** A.

Prerequisite: History 202 or consent of instructor.

Colonial background of Revolution; internal as well as external nature of Revolution; problems associated with Confederation; and events leading up to the American Constitution.

History 503. (Formerly History 403) Jacksonian Democracy. **Three hours.** A.

Criticism of the concept. Party issues, nationalism, and the importance of the age.

History 504. (Formerly History 404) The Ante-Bellum Period. **Three hours.** A.

Prerequisite: History 202 or consent of instructor.

Political sectionalism; young nationalism; economic transition; democracy's mind; politics as an art.

History 505. (Formerly History 405) America's Westward Expansion. **Three hours.** A.

Prerequisite: History 202 and 203 or consent of instructor.

The Colonial frontier; conflicts of Empire; trans-mountain movements; the Ohio-Mississippi valleys; Indian problems; Manifest Destiny; the West and the sectional struggle; the trans-Mississippi frontier of mining, railroads, cattle, and agriculture; West versus East.

History 506. (Formerly History 406) The South in American History. **Three hours. A.**

Prerequisite: History 202 and 203 or consent of instructor.

Colonial developments in society and politics; the origins of sectional consciousness; the institutions of Negro slavery and the plantation system; southern ideas and ideals; the Civil War and Reconstruction; the modern south.

History 507. (Formerly History 407) Civil War and Reconstruction. **Three hours. A.**

Prerequisite: History 202 or consent of instructor.

The ante-bellum South, the ante-bellum North; anti-slavery agitation, the growth of sectional consciousness, recurrent crises, secession, and war; military operations, internal developments in the North and South; the Confederate collapse; problems of reconstruction; social, political, and economic reconstruction; aftermath.

History 510. The Gilded Age, 1877-1898. **Three hours. A.**

Prerequisite: History 203 or consent of instructor.

America's industrial expansion; rise of labor unions; the farm protest; political bossism.

History 511. (Formerly History 411, 1900-1929) The Progressive Era and World War I, 1898-1920. **Three hours. A.**

Prerequisite: History 203 or consent of instructor.

Progressive movement; imperialism; American entry into war; the Treaty of Versailles and the League of Nations.

History 512. (Formerly History 412, 1929-present) Prosperity, Depression, and War, 1920-1945. **Three hours. A.**

Prerequisite: History 203 or consent of instructor.

Internationalism and isolationism; prosperity in the twenties; the depression and efforts to cope with it; the coming of World War II.; United States participation in war.

History 513. (Formerly History 412, last part) The United States and World Responsibility, 1945-present. **Three hours. A.**

Prerequisite: History 203 or consent of instructor.

The problems of post-war adjustment; the cold war; the affluent society; problems inherent on world leadership.

History 520. (Formerly History 420) The Negro in American History. **Three hours. A.**

The African heritage; middle passage; the peculiar institution; the Negro and the Civil War; reconstruction; the strange career of Jim Crow; modern emancipation; black nationalism.

History 530. (Formerly History 430) American Social and Intellectual History to 1850. **Three hours. A.**

Prerequisite: History 202 or consent of instructor.

European influences; the colonial mind; revolutionary attitudes; New England's leadership; the movement of protest and reform; the rise of a native literature.

History 531. (Formerly History 431) American Social and Intellectual History since 1850. **Three hours. A.**

Prerequisite: History 203 or consent of instructor.

The Civil War; Protestantism and Capitalism; Social Darwinism; the literature of naturalism and realism; the twentieth-century mind.

History 533. (Formerly History 433) American Diplomatic History. **Three hours. A.**

Prerequisite: History 202 and 203.

The history of American foreign relations from 1776 to the present with special emphasis on the development of major trends such as isolationism, imperialism, and internationalism.

History 535. (Formerly History 320) Ancient History in the Near East and Greece. **Three hours.** A.

The Ancient Near East and Greece from prehistoric times to Alexander the Great and his successors; early food production; the rise of civilization in Babylonia and Egypt; the development of economic and political institutions; art; science; literature; and religion. Meets Ancient History optional requirement.

History 536. (Formerly History 321) History of Rome. **Three hours.** A.

Rome from prehistoric village to the dominant power to the Mediterranean world; rise and decline of the Empire in the West. Meets Ancient History optional requirement.

History 540. (Formerly History 440) Renaissance and Reformation. **Three hours.** A.

This course will deal with the transformation of European civilization from the medieval to the modern period, 1350-1650. Special emphasis will be placed upon changes in the political, religious, and economic institutions of Europe and the reflection of these changes in intellectual thought. Meets Modern European optional requirement.

History 541. (Formerly History 441) The Age of the Enlightenment. **Three hours.** A.

European intellectual history, 1650-1789; the scientific revolution, the Cartesian and Newtonian schools; the Enlightenment as an European phenonenon; special emphasis on the eighteenth century as an age of political and social criticism. Meets Modern European optional requirement.

History 542. (Formerly History 442) The French Revolution and Napoleon, 1789-1815. **Three hours.** A.

Background for the French Revolution; analysis of the various stages of the Revolution and their reflection of foreign policy; the establishment of the First Empire and the reasons for its collapse; the effects of the French Revolution upon France and Europe; 1815 as a watershed of European history.

History 544. (Formerly History 444) European Intellectual History since 1815. **Three hours.** A.

A study of European civilization in the 19th and 20th centuries with special emphasis upon institutions, ideas, and cultural forms distinguishing the period. Meets Modern European optional requirement.

History 545. (Formerly History 445) Europe from 1815 to 1870. **Three hours.** A.

The Congress of Vienna and reaction following the Napoleonic wars; the revolutions of 1820, 1830 and 1848; liberalism, realism, and nationalism; the growth of science and technology.

History 546. (Formerly History 446) Europe from 1870 to 1914. **Three hours.** A.

A survey of the rapidly growing European society, economy, and worldwide impact in the period of uneasy European peace prior to the First World War; industrialism; imperialism; the diplomatic background of World War I.

History 547. Tudor England 1485-1603. **Three hours.** A.

Henry VII and the resurgence of the monarchy; dynastic consolidation; Early English Renaissance; Henry VIII and the revolt against Rome; the Protestant Reformation; Cromwell's reforms; Economic and social change; Edward VI and the Marian Reaction; character and policies of Elizabeth; Elizabethan Settlement; Catholics vs. Puritans; Elizabethan diplomacy and the Spanish War; the Tudor Constitution and the rise of Parliament; origins of the empire; the Elizabethan Renaissance.

History 548. Stuart England 1603-1714. **Three hours.** A.

Characters and policies of the early Stuarts; constitutional conflicts; Anglicanism vs. Puritanism; socio-economic developments; the gentry and aristocracy; the collapse of the Tudor Constitution; the English Civil War; Cromwell and the Interregnum; Charles II and the Restoration; the Scientific Revolution; the growth of the Empire; the Glorious Revolution; new constitutional developments; Britain as a Great Power; the wars of Louis XIV.; the reign of Queen Anne.

History 550. (Formerly History 450) The Emergence of Victorian Britain. **Three hours.** A.

Economic and intellectual backgrounds of the 19th century; the French Revolution and the Napoleonic threat; reaction and reform after 1815; the Victorian thought; origins of the Commonwealth; the age of Palmerston in foreign affairs. Meets Modern European optional requirement.

History 551. (Formerly History 451) Britain and the Empire in Adversity 1867-1965. **Three hours.** A.

Characteristics of a new era; the Reform Bill of 1867; economic and intellectual trends in the late 19th century; the decline of liberalism in politics; the revival of imperialism; coming of World War I; economic and social dislocations; emergence of the Commonwealth; political futility at home and abroad; the impact of World War II; the Conservative-Labor contention; the liquidation of Empire; Britain's role in the "cold" war. Meets the Modern European optional requirement.

History 557. (Formerly History 470) Germany since 1870. **Three hours.** A.

Background, including the rise of Prussia; German nationalism and German particularism; the creation of the German Empire and its rule under Bismarck and William II; the Peace Treaty and the Weimar Republic; Nazi Germany; the Second World War and Allied Occupation.

History 560. (Formerly History 360) History of Russia I. **Three hours.** A.

Prerequisite: General Studies 246 and 247.

The Eastern Slavic nations from earliest times to the modern imperial period of 1801. Political, socio-economic, and cultural developments of the period.

History 561. (Formerly History 361) History of Russia II. **Three hours.** A.

Prerequisite: History 560.

Russia from the beginning of the 19th century to the Revolution of 1917. Serfdom, industrialization, agrarian reforms and the revolutionary movements.

History 562. (Formerly History 362) The History of the Soviet Union. **Three hours.** II.

A survey of Russia from the 1917 revolutions to the present; the Civil War; Lenin's New Economic Policy; the five-year plans; the Soviet system of government; and Russia's emergence as a world power following World War II. Attention is also given to those cultural trends underlying the political, economic, and social developments of the Soviet era. Meets Modern European optional requirements.

History 566. (Formerly History 480) Imperial Spain, 1489-1815. **Three hours.** A.

A political and cultural history of Spain from the period of its predominance in European and American affairs until its decline in the 17th and 18th centuries.

History 570. (Formerly History 370) Far Eastern History to the 19th Century. **Three hours.** I.

A survey of the history of China and Japan from ancient times to the end of the 18th century, emphasizing characteristic political, economic, social, religious, and cultural developments in both countries. Reference also will be made to peripheral areas. Meets Far Eastern History optional requirement.

History 571. (Formerly History 371) Far Eastern History in the 19th and 20th Centuries. **Three hours.** II.

A survey of the history of China and Japan in the 19th and 20th centuries. Special attention is given to the impact of the West, intellectual and cultural movements, and political, economic, and social developments. Meets Far Eastern History optional requirements.

History 580. (Formerly History 350) History of Latin America. **Three hours.** I.

European and American background; discovery, conquest, and expansion; techniques of government; social and economic institutions to independence. Meets Latin American History optional requirement.

History 581. (Formerly History 351) History of Latin America. **Three hours.** II.

Comparative treatment of political, economic, and social institutions of the Latin American republics from attainments of independence to the present. Meets Latin American History optional requirement.

History 598. (Formerly History 498) The Ideological Foundations of Western Civilization. **Three hours.** I, II.

Introduction to the basic concepts in the ideological heritage of the Western World from the end of the medieval age through the Englightenment. Reading materials will consist largely of selections from the great books and documents in religion, science, economics, political theory, and philosophy,.

History 599. (Formerly History 499) The Ideological Foundations of Western Civilization. **Three hours.** I, II.

Introduction to the basic concepts in the ideological heritage of the Western World from the Englightenment to the present. Reading materials will consist largely from the great books and documents in religion, science, economics, political theory, and philosophy.

GRADUATE DIVISION COURSES

History 601. Survey of Historiography. **Three hours.** I.

A seminar approach to the history of historical writings and interpretation. The course directs attention to the selected works of great historians from Herodotus to the present day. Required of all candidates.

History 603. Historical Criticism. **Three hours.** II.

A seminar in fundamental techniques of the historian; using basic bibliographical tools; locating and evaluating source materials; writing book reviews; critically interpreting historical evidence. Required of all candidates.

History 604. (Formerly History 504) History as a Social Science. **Three hours.** A.

The scientific approach to social problems and their historical interpretation; an analysis of the economic, social, intellectual, and political backgrounds of contemporary civilization.

History 605. The Humanities approach to History. **Three hours.** A.

Prerequisite: Consent of instructor.

An examination of the "American Character" and its development as an example of the Humanities approach to the study of history.

History 606. Problems in Interpreting World History. **Three hours.** A.

A seminar concentrating upon selected controversial developments in World History.

History 607. Problems in Interpreting American History. **Three hours.** A.

A seminar concentrating upon selected controversial developments in American History.

History 610. Pro-seminar in American History. **Three hours.** II.

Readings and investigations in a field other than the student's specialty. Required of all American History majors.

History 611. Seminar in American History. **Three hours.** I.

Techniques of research, note-taking, documentation; occasional lectures and class discussions provide continuity and acquaint the student with the major problems and controversies of the area. Fields vary from semester to semester as announced. Required of all American History majors.

History 620. Topics in Early 19th Century English History, 1815-1867. I.

A seminar in the Victorian era. Students conduct original research; prepare papers; and submit their work to the class for criticism and discussion. Required of all English History majors.

History 698. Thesis Tutorial I. **Three hours.** A.

History 699. Thesis Tutorial II. **Three hours.** A.

MATHEMATICS

Bennie R. Lane, Chairman

A student may major in Mathematics with right of teaching certificate by taking the following course or their equivalent: Mathematics 107, 108, 113, 232, 251, 352 and 467. He must elect 12 additional hours, nine of which must be chosen by taking one course from each of the following groups: Mathematics 508 or 509, 533 or 534, 553 or 554.

A student must take at least 10 hours in Physics preferable Physics 201 and 202.

MATHEMATICS

Recommended curriculum for majors in Mathematics with right of teaching certificate. The first two years of this curriculum may be found in the Central University College section

Third Year

First Semester	Hours	Second Semester	Hours
Education 315	2	Education 316	2
Mathematics 352	3	*Mathematics elective	6
Physics 131 or 201	5-6	Physics 132 or 202	5-6
**Restrictive Elective	3	**Restrictive Elective	3
Elective	3		
	16-17		16-17

Fourth Year

*Mathematics Elective	6	Education 364	4
Elective	10	Education 463	10
		Mathematics 467	3
	16		17

Recommended Curriculum for a Second Major in Mathematics:

A student with a first major in some other department may take the following courses for a second major in Mathematics: Mathematics 107, 108, 113, 232, 251, 352, and two courses from the following: Mathematics 370, 508, 509, 533, 534, 553, 554, 556, 558, 559, 571.

Recommended Curriculum for a Minor in Mathematics:

A student with a major in some other department may take the following courses for a minor in Mathematics: Mathematics 107, 108, 113, 232, 251, 352.

* A minimum of twelve semester hours of Mathematics electives are to be chosen so that at least one course will be taken from each of the following groups: Mathematics 508 or 509, 533 or 534, 553 or 554.

** Restrictive Elective will require that the student select six hours from the following: Art 200, Art 390, Art 391, six hours of Foreign Language, History 598, History 599, Music 271, Music 371, Music 372.

MATHEMATICS

A student may major in Mathematics without right of teaching certificate by taking the following course or their equivalent: Mathematics 107, 108, 113, 232, 251 and 352. He must elect 15 additional hours, nine of which must be chosen by taking one course from each of the following groups: Mathematics 508 or 509, 533 or 534, 553 or 554.

A student must take at least 10 hours in Physics preferable Physics 201 and 202.

MATHEMATICS

Recommended curriculum for a major in Mathematics without right of teaching certificate. The first two years of this curriculum may be found in the Central University College section

Third Year

First Semester	Hours	Second Semester	Hours
Mathematics 352	3	*Mathematics elective	3
**Restrictive elective	3	**Restrictive elective	3
Elective	10	Elective	10
	16		16

Fourth Year

*Mathematics elective	6	*Mathematics elective	6
Elective	10	Elective	10
	16		16

Recommended Curriculum for a Second Major in Mathematics:

A student with a first major in some other department may take the following courses for a second major in Mathematics: Mathematics 107, 108, 113, 232, 251, 352, and two courses from the following: Mathematics 370, 508, 509, 533, 534, 553, 554, 556, 558, 559, 571.

Recommended Curriculum for a Minor in Mathematics:

A student with a major in some other department may take the following courses for a minor in Mathematics: Mathematics 107, 108, 113, 232, 251, 352.

* A minimum of fifteen semester hours of Mathematics electives are to be chosen by taking Mathematics 508 or 509, 533 or 534, 553, and six hours from Mathematics 370, 395, 456, 508 or 509, 533 or 534, 554, 558, 559, and 571.

** Restrictive Elective will require that the student select six hours from the following: Art 200, 390, Art 391, six hours of Foreign Language, History 598, History 599, Music 271, Music 371, Music 372.

MATHEMATICS AND ASTRONOMY

Mathematics 107. (Formerly Mathematics 10.) College Algebra I. **Three hours. I, II.**

Review of high school algebra; exponents and radicals; functions and their graphs; equations and their solutions; systems of linear and quadratic equations; ratio and proportion; progressions.

Mathematics 108. (Formerly Mathematics 11.) College Algebra II. **Two hours. I, II.**

Prerequisite: Mathematics 107, or permission of instructor.

Mathematical induction; binomial theorem; theory of equations; permutations; combinations; probability; determinants; partial fractions.

Mathematics 113. (Formerly Mathematics 12.) Trigonometry. **Three hours. I, II.**

Prerequisite: Mathematics 107, or permission of instructor.

The trigonometric functions; logarithms; right triangle; radian measure; properties of the trigonometric functions; functions of two angles; the oblique triangle; the inverse trigonometric functions.

Mathematics 201. Understanding Arithmetic. **Three hours. I, II.**

This course is for future teachers in the elementary grades. Emphasis is put on meaning rather than upon manipulation as such. The topics covered are number and numerals, sets and numbers, number operations, the fundamental operations, number scales, number structure, fractions, decimals and the real number system.

Mathematics 202. Understanding Elementary Mathematics. **Three hours.** I, II.

Prerequisite: Mathematics 201.

This course is a continuation of Mathematics 201 with the introduction of the ideas of modern mathematics, elementary logic, geometry, the number concept, extending the number system, numeration, exponents, measurement, functions and graphs.

Mathematics 232. (Formerly Mathematics 21.) Analytic Geometry. **Three hours.** I, II.

Prerequisite: Mathematics 108, 113, or permission of instructor.

Rectangular coordinates; fundamental definitions and theorems; functions and graphs; equation of a locus; the line; polynomials; rational fractional functions; transformation of coordinates; the circle, parabola, ellipse and hyperbola; the trigonometric curves; the exponential and logarithmic curves; parametric equations; polar coordinates; solid analytic geometry.

Mathematics 251. (Formerly Mathematics 22 and 23.) Differential Calculus **Five hours.** I, II.

Prerequisite: Mathematics 232.

Variables; functions; differentiation; applications of the derivative; successive differentiation; parametric and polar equations and roots; differentials; curvature; theorem of mean value and its application; series; expansions of functions; partial differentiation; integration by elementary forms.

Mathematics 321. (Formerly Mathematics 30.) General Astronomy. **Three hours.** II.

Development of astronomy as a science; development of the solar system; astronomical instruments; better known facts of astronomy.

Mathematics 352. (Formerly Mathematics 32.) Integral Calculus. **Three hours.** I, II.

Prerequisite: Mathematics 251.

Integration; constant of integration; definite integral; integration as a process of summation; centroids; fluid pressure; other applications and multiple integrals.

Mathematics 370. Introduction to Mathematical Statistics. **Three hours.** A.

Prerequisite: Mathematics 352.

Algebra of sets, set functions; distributions of random variables, conditional probability and stochastic independence, the correlation coefficient; special distributions; mathematical expectations of functions of random variables; random intervals, confidence intervals for means and variances, Bayesian interval estimates; order statistics, limiting distributions, central limit theorem.

Mathematics 395. Descriptive Geometry. **Three hours.** A.

Same as Industrial Technology 395. May be taken in either the Mathematics or Industrial Technology Department.

Mathematics 467. The Teaching of High School Mathematics. **Three hours.** I, II.

Prerequisite: Ten hours of college mathematics or consent of the head of the department.

The history of mathematics; historical background of the mathematics curriculum; new developments in secondary school mathematics; significance for the modern curriculum; recommendations of various groups; some improvement programs for school mathematics; thorough examination of texts and materials; a consideration of some of the newer topics such as sets, bases other than ten, teaching; evaluation; the preparation of the teacher.

Mathematics 508. (Formerly Mathematics 408) Introduction to Modern Algebra. **Three hours.** I, II.

Prerequisite: Mathematics 251 or consent of the instructor.

Some fundamental concepts, sets, mapping, equivalence relations, operations; rings and integral domains, isomorphisms; some properties of the integers; field with emphasis on construction of the various number systems; groups.

Mathematics 509. (Formerly Mathematics 409) Linear Algebra. **Three hours.** I, II.

Prerequisite: Mathematics 251 or consent of instructor.

Matrix algebra; vector spaces; systems of linear equations; linear transformations.

Mathematics 533. (Formerly Mathematics 333) Introduction to Non-Euclidean Geometry. **Three hours.** I, II.

Prerequisite: Mathematics 251 or consent of the instructor.

Finite geometries; foundations of Euclidean geometry with investigations of the tacit assumptions of Euclid; Hilbert's postulates; Euclid's Fifth Postulate; the discovery of Non-Euclidean geometry; hyperbolic plane geometry; elliptic plane geometry; consistency of the Non-Euclidean geometries.

Mathematics 534. (Formerly Mathematics 334) Modern College Geometry. **Three hours.** I, II.

Prerequisite: High School Geometry and Mathematics 232.

Logical systems and basic laws of reasoning; special topics of axiomatic geometry; Menelaus's and Ceva's theorems; harmonic elements and cross ratio; projective geometry; basic axioms; duality; Desargues's theorem; perspective figures; coordinate projective geometry; transformation theory.

Mathematics 553. (Formerly Mathematics 41 and Mathematics 453) Differential Equations. **Three hours.** I, II.

Prerequisite: Mathematics 352.

Differential equations of the first order; applications; singular solutions; linear equations with constant coefficients; miscellaneous methods for solving equations of higher order than the first; integration in series; total differential equations.

Mathematics 554. (Formerly Mathematics 42 and Mathematics 454) Advanced Calculus. **Three hours.** I.

Prerequisite: Mathematics 352.

Review of elementary calculus with attention focused on the concepts of function and limit; the real number system; continuity; least upper bounds; nested intervals; continuous functions; Cauchy's generalized law of the mean; indeterminate forms; Taylor's series with remainder; functions of several variables; homogeneous functions; implicit functions; partial differentiation; allied topics.

Emphasis is placed throughout on the fundamental principles and methods of analysis.

Mathematics 556. (Formerly Mathematics 456.) Vector Analysis. **Three hours.** II.

Prerequisite: Mathematics 352 and Physics 202.

Same as Physics 556. May be taken in either the Mathematics or Physics Department.

Mathematics 558. (Formerly Mathematics 455) Classical Mechanics I. **Three hours.** I (1967-'68)

Prerequisite: Physics 202. Corequisite Mathematics 553.

Same as Physics 558. May be taken in either the Mathematics or Physics Department.

Mathematics 559. Classical Mechanics II. **Three hours.** II (1967-'68)

Prerequisite: Physics 558 or Mathematics 558.

Same as Physics 559. May be taken in either the Mathematics or Physics Department.

Mathematics 571. Introduction to Numerical Analysis. **Three hours.** A.

Prerequisite: Mathematics 553 (and an understanding of the algebra of matrices)

This course is an introduction to the basic problems of approximation of functions, numerical solution of polynomial equations and systems of linear algebraic equations. The techniques are relatively simple methods that have been found useful in modern computation problems and these problems are small enough for solution on a desk calculator. The student should expect to spend some time outside the class period in laboratory work.

GRADUATE DIVISION COURSES

Mathematics 601. (Formerly Mathematics 501) Foundations of Elementary School Mathematics. **Three hours. A.**

A course designed exclusively for elementary school teachers working toward the Master of Arts in Education degree. However, credit may not be earned by those who already have credit for Mathematics 201 and 202.

Counting and numeration; fundamental concepts of the whole, rational and real number systems; variables and conditions; logic; non-metric geometry; measurement; congruence; parallelism; area and volume.

Mathematics 602. (Formerly Mathematics 502) Selected Topics in Mathematics for Elementary School Teachers. **Three hours. A.**

The course is designed to enable students to increase their strengths in mathematics to somewhat greater depth and breadth than that which is recommended for minimum preparation. At the same time, the content is conceived to reflect the spirit of the modern elementary school mathematics programs as exemplified by the various national and local study groups concerned with the improvement of instruction in the field of mathematics at this level.

Mathematics 607. (Formerly Mathematics 507) Foundations of Secondary School Mathematics I. **Three hours. A.**

A course designed exclusively for secondary school teachers of mathematics who are working toward the Master of Arts in Education degree.

Topics include: Number and numeration; fundamental number theory; sets, relations, and functions; algebraic systems; consideration of these topics as they are likely to affect the modern high school mathematics program.

Mathematics 608. (Formerly Mathematics 508) Foundations of Secondary School Mathematics II. **Three hours. A.**

A course designed, in sequence with Mathematics 607, exclusively for secondary school teachers of mathematics who are working toward the Master of Arts in Education degree.

Topics include: History and development of geometry; logic and the nature of proof; foundations of synthetic and analytic Euclidean geometry; discovery of non-Euclidean geometries; vector approaches to the study of geometry; consideration of these topics as they are likely to affect the mathematics program in the modern high school.

MILITARY SCIENCE

Colonel Everett N. Smith, Chairman

The primary mission of the Reserve Officer's Training Corps (ROTC) is to produce junior officers for all components of the United States Army. A vital secondary mission is to impart citizenship training, develop leadership potential and to stimulate and motivate the student for future useful service in behalf of the Nation in whatever profession he chooses. The basic aim is to develop in each student habits of cheerful and appropriate response to constituted authority, loyalty, patriotism, self-discipline, personal bearing and precision.

At the request of this institution, the United States Army established a Reserve Officer's Training Corps (ROTC) Unit at Eastern Kentucky University in 1936. Initially, the ROTC program offered a commission only in Artillery, without regard to the student's academic background. In 1955, with mutual agreement between the college and the Department of the Army, the program was changed to a General Military Science curriculum which provides instruction in leadership and military fundamentals common to all branches of the Army. Upon graduation a student may now be commissioned in one of fifteen branches consonant with his academic major, his preference, and the requirements of the military service. Those branches are: Armor, Artillery, Infantry, Signal Corps, Engineers, Chemical Corps, Adjutant General's Corps, Finance Corps, Military Pclice Corps, Ordnance Corps, Quartermaster Corps, Medical Service Corps, Transportation Corps, Army Intelligence, and Army Security.

The Army ROTC program at Eastern Kentucky University is divided into two courses of two years each. These are the BASIC course normally taken in the freshman and sophomore years, and the ADVANCED course taken in the junior and senior years. Completion of the basic course is a prerequisite for the advanced course. Between the junior and senior years the student attends a six weeks camp at an Army Post where he is given an opportunity to put into practice the military theory learned at Eastern Kentucky University. Successful completion of the basic and advanced courses and the summer camp is required to be eligible for a commission.

Basic Course—The ROTC basic course of two years duration is compulsory for all able-bodied male students. This course is a college requirement for graduation. Students may be excused from this requirement in rare cases only upon recommendation of the Professor of Military Science after a personal interview, and approval by the President of Eastern Kentucky University. Once a student is enrolled he must continue in the basic course each semester he is enrolled in college until the basic course has been completed satisfactorily. Students may be excused from formal enrollment in the basic course in the following instances:

(a) If not a citizen of the United States

(b) If under 14 years of age; or if cannot qualify for appointment as Second Lieutenant prior to reaching 28 years of age

(c) If medically unfit to perform General Military Service.

A student who has previous military experience or has completed ROTC training in high school or in another college will, after a conference with the Professor of Military Science, be enrolled in the course for which previous training qualifies him, or be excused from enrollment under certain conditions.

Students transferring to this university after completing part of the basic course elsewhere must continue the course at this university until successful completion. Students transferring to this university who have not been enrolled in the basic course elsewhere will be required to enroll in and complete the basic course if their classification upon enrollment is less than that of a second-semester sophomore. Students transferring with a classification of second-semester sophomore or junior, without previous military training. may qualify for the ROTC advanced course by attendance at a basic training camp during the summer between their sophomore and junior years. In any event, male transfer students must consult with the Professor of Military Science for determination of enrollment.

Advanced Course--The advanced course is offered to those students who have successfully completed the basic course and who have been recommended by the Professor of Military Science and approved by the President of the University. Such recommendations will be limited to those students who have shown special interest and ability during the basic course, who have stated a desire to continue in the advanced course to qualify for a commission in the Regular Army or the Army Reserve, and who achieve satisfactory score on the prescribed standardized qualification test. A student selected will receive subsistence pay of forty dollars ($40.00) per month, or approximately $800.00 for the two year course. During the summer following the junior year, students in the advanced course will attend a summer camp of six weeks duration. While attending summer camp, members of the advanced course are paid at the rate of $147.30 per month and are furnished subsistence, housing, uniforms and medical care, and are paid a travel allowance to and from camp. Enrollment in the advanced course will be limited to students who can qualify for appointment as Second Lieutenants prior to reaching 28 years of age. Those who enroll must sign an agreement with the United States Government to complete the advanced course and attend summer camp. Upon successful completion of the advanced course and recommendation by the Professor of Military Science and the President of the University, students may be commissiond as Second Lieutenants in the Army Reserve at the time their degree is conferred. Distinguished Military Students, so designated in their senior year by the Professor of Military Science for outstanding achievement during the preceding three-year period, have an opportunity to apply for Regular Army Commissions. This opportunity is extended only to those students of high leadership potential and who stand academically in the upper one-third of the advanced course.

Credit—The basic course is presented in two classroom hours and one drill period per week for both Military Science I (freshmen) and Military Science II (sophomores), for which two hours credit are awarded for each semester.

The advanced course is presented in four classroom hours and one drill period per week during the one semester. During the other semester the advanced course is presented in one classroom hour and one drill period per week. However, advanced students must take a three hour subject matter elective substitute course during the spring semester (see advanced course curriculum for Military Science III and IV). The student receives four hours credit each fall semester and one hour credit each spring semester for a total of five hours credit each year in the advanced program. He receives constructive credit, towards meeting advance course requirements, for the three hour subject matter elective substitute course both years. The subject matter elective substitute course may be taken during either semester and need not be limited to the spring semester.

Since the basic course in Military Science is a requirement for a degree, students should confer with their faculty advisor or the Dean of their College to determine the most advantageous use of ROTC credits.

Medical Examinations—Section 44 of the National Defense Act requires that students must be "physically fit to perform military duty, or will be so upon arrival at military age." In order that this law may be carried out, each applicant is required to undergo certain medical examinations as a prerequisite for enrollment and continuance in the Reserve Officer's Training Program.

Applicants for enrollment in the basic course may be examined by any doctor of medicine. Such examinations will be at no expense to the government. Each male student enrolling for the first time at this University should therefore attach to his application for enrollment, or bring with him at time of registration, a report of physical examination performed by a civilian physician.

Examinations for students selected for enrollment in the advanced course will be arranged for by the Professor of Military Science at no cost to the students.

ROTC Extracurricular Activities—

a. Company R, 1st Regiment of the National Society of Pershing Rifles—Membership in the Pershing Rifles Company is open to basic and advanced course students who exhibit outstanding leadership and military ability.

b. The Lieutenant John "Nick" Combs Memorial Company, Association of the United States Army, Eastern Kentucky University Chapter—Membership in this organization is open to all ROTC students. An outstanding extracurricular social activity presented during the spring semester each year by this organization is the Military Ball. A portion of the fee charged each cadet enrolled in ROTC entitles him to all privileges of the Military Ball.

c. The Eastern Kentucky University Reserve Officers Training Corps Band, a charter member of the National Reserve Officers Training Corps Band Association—Membership in this organization is open to all ROTC cadets who possess the required abilities. This unit provides music for all ROTC drill activities as well as for selected University functions.

d. Rifle Team—Another extracurricular activity is the rifle team, which is a recognized athletic team at Eastern Kentucky University.

e. Counterguerrilla Raider Training Unit—This program is a student activity, conducted for the purpose of developing among its members a sense of personal responsibility, military discipline, physical fitness, and the spirit of unselfishness and devotion to duty so essential to a successful military career. Membership is open to ROTC cadets who are second semester freshmen or higher, and to non-ROTC students on campus.

f. Scabbard and Blade—The Scabbard and Blade Company, a member of the National Society of Scabbard and Blade, is open for membership only to senior cadet officers who fully meet high standards of character, leadership, academic achievement, and demonstrated proficiency in Military Science. Nominations for membership are made by the Scabbard and Blade members, subject to approval by the Professor of Military Science and the President of the University. Membership is considered indeed an honor and a cherished reward for outstanding studentship over a three year period.

g. Coed Sponsors—A coed sponsor is selected for each headquarters and company of the brigade. These sponsors wear their own distinctive uniform and hold the rank of their corresponding unit commander. They attend formations and ceremonies with the brigade and are extended the same courtesies as the cadet officers. Selection of sponsors is accomplished by MS IV students during September of each year. The girls selected as sponsors will be the candidates for the honor of Military Ball Queen. The sponsor chosen as Queen of the Military Ball will be given the rank of Cadet Colonel and will serve as the Brigade Sponsor for the next school year.

MILITARY SCIENCE

Military Science 101. Introduction to Military Science. Two hours.

Organization of the Army and ROTC; individual weapons and marksmanship; *basic military subjects; leadership laboratory.

Military Science 102. Basic Military Training. Two hours.

Prerequisite: Military Science 101 or equivalent.

U. S. Army and national security; *basic military subjects; leadership laboratory.

Military Science 201. Second Year Basic Military Training. **Two hours.**

Prerequisite: Military Science 102 or equivalent.

Map and aerial photograph reading; introduction to basic tactics and techniques; leadership laboratory.

Military Science 202. Second Year Basic Military Training. **Two hours.**

Prerequisite: Military Science 201 or equivalent.

American military history; leadership laboratory.

Military Science 301. First Year Advanced Military Training. **Four hours.**

Prerequisite: Basic course or equivalent.

Leadership; military teaching principles; small unit tactics and communications; leadership laboratory.

Military Science 302. First Year Advanced Military Training. **One hour.**

Prerequisite: Military Science 301.

Branches of the Army; **precamp orientation; leadership laboratory; ***academic subject elective.

Military Science 401. Second Year Advanced Military Training. **Four hours.**

Prerequisite: Military Science 302.

Operations; logistics; army administration; military law; leadership laboratory.

Military Science 402. Second Year Advanced Military Training. **One hour.**

Prerequisite. Military Science 401.

The role of the United States in world affairs; service orientation; leadership laboratory; ****academic subjects.

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* To include military first aid; care of mass casualties; chemical-biological-radiological warfare; drill and ceremonies.

** This 5-hour course may be introduced as substitute instruction in leadership laboratory.

*** Elective academic subjects must be chosen during the junior and senior years; be approved in advance by the Professor of Military Science and must be three hour upper or graduate division courses chosen from the following academic areas:

1. English
2. Language
3. Speech (any three hour course)
4. Chemistry, Physics, Biology, Science, Geography and Mathematics
5. Psychology
6. Political Science
7. History

In the event that a particular subject is required in the student's normal academic curriculum during the freshman and sophomore years, electives must be selected either from another general area or from an upper division subject in the same area. However, if the subject selected was not required in the student's academic curriculum during the freshman and sophomore years, complete freedom of selection from within the seven above stated academic areas is permissable. The Professor of Military Science will evaluate and approve the elective subjects selected. Consideration will be given to the value of the subject in furthering the professional qualifications of the student as a prospective commissioned officer in the United States Army.

**** Academic subject elective courses are from the same areas and courses as for Military Science III.

MUSIC

A. J. Broekema, Chairman

The Department of Music offers curricula which prepare students for careers concentrating in one or more of the following areas of service: the public schools, colleges and universities, private studios, or church music programs. The music student may choose from the following degree programs:

THE BACHELOR OF MUSIC EDUCATION, with emphasis in voice, keyboard, string or wind instruments. On completion of requirements listed below, this degree provides a provisional certificate with right of teaching in the public schools at all twelve grade levels in both vocal **and** instrumental music.

THE BACHELOR OF MUSIC, with majors in voice, piano, organ, wind or string instruments, and church music. This degree program provides a course of study for the professional performer and for students who wish to teach in private studios, to teach at the college level, or to secure a basic degree in preparation for advanced study.

THE BACHELOR OF ARTS, with a major or minor in music. One course of study outlined below provides the students with the provisional certificate for teaching in the public schools at all twelve grade levels in **either** vocal or instrumental music. The major or minor in music, without right of teaching, provides a liberal arts degree with a concentration in music.

Music Background Required. Before selecting the field of music for study in one of the programs outlined below, the student will consult with the chairman of the Department of Music. Students who select music as a course of study should have had some pre-college training and must have certain natural aptitudes. These apititudes are examined by means of an audition and a music testing program administered during Freshman Orientation Week.

The student should consult specific degree requirements as indicated, but the following activities and requirements are required of all students enrolled in a music program.

Activities. Students will be expected to participate in the activities and organizations of the Department of Music, and to accept such assignments as are given them in these connections. The music student will be enrolled in a major ensemble during each semester of residence.

Recital Attendance. Attendance at university concerts and recitals is considered a part of each student's responsibility and is required. Unsatisfactory attendance, described in a separate document, will affect grades in applied music.

Public Performance. Before accepting an engagement for public performance, the student of applied music must secure the approval of the teacher in that particular field.

SUMMARY OF COURSES FOR THE BACHELOR OF MUSIC EDUCATION

General Academic	
General Studies 101, 102, and 6 additional hours in English	12
General Studies 162 and 170, 176, or Geology 108; 6 additional hours in Science or Mathematics	12
General Studies 180 and 181 (Physical Education)	2
General Studies 246, 247 (Western Civilization)	6
General Studies 281 (Personal and Community Health)	3
Social Science electives	6
Humanities (Music 371, 372 listed under Music)	
Military Science for Men	8
Education and Psychology	
Psychology 211	3
Education 202, 315, 316, 364, 441, 463	24
Music	
Theory	18
Music 181, 182, 191, 192	
Music 281, 282, 291, 292, 380	
History and Literature	9
Music 272, 371, 372	
Applied Major Instrument, for 7 semesters minimum*	7
Applied Classes**	7-10
Music 130, 131, 251, 253, 350, 353, 354, 320	
Secondary Piano***	2
Techniques	4
Music 366 and 383 or 584	
Music Education	10
Music 367, 368, 378, 379	
Ensembles****	

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* Students will be required to pass a general proficiency examination in their major applied instrument before admission to Upper Division Applied Music study. The student will present the equivalent of a half recital as a solo performer before graduation.

** Wind or String Emphasis: Music 130, 131, 251, 253, 350, 353, 354 320.

Voice or Keyboard Emphasis: Music 130, 131, 251, 350; Music 320 for Keyboard only.

*** Students will not be admitted to the Teacher Education Program until the Secondary Piano requirements have been met as follows: Wind & String Emphasis: Completion of Music 110 and 111 with a grade of "B" in both courses. Voice Emphasis: Completion of Music 110, 111, and 112a with a grade of "B" in each. Keyboard Emphasis: Competencies outlined for Music 110, 111, and 112a will be required of the keyboard student. Designated skills will be included in applied piano courses, and students will be required to show proficiency in such skills.

****Students must be enrolled in a major ensemble which reflects his major applied area during each semester of residence. An additional year of ensemble experience must be fulfilled in an ensemble other than that chosen as the principal ensemble.

SUMMARY OF COURSES FOR THE BACHELOR OF MUSIC*

with Majors in Piano, Organ, Voice, Wind
or String Instruments, or Church Music

General Academic

General Studies 101, 102, and 6 additional hours in English	12
General Studies 162 and 170, 176, or Geology 108; 6 additional hours in Science or Mathematics	12
General Studies 180 and 181 (Physical Education)	2
General Studies 246, 247 (Western Civilization)	6
General Studies 281 (Personal and Community Health)	3
Social Science electives	6
Humanities One year of one language required Two years of two languages required of the Voice Major (12 hours)	6
Military Science for Men	8

Music

Theory Music 181, 182, 191, 192 Music 281, 282, 291, 292, 380 Music 381, or 382, or 583	20
History and Literature Music 272, 371, 372 3 hours elective from Upper Division Courses with 3 additional hours for the Church Music Major	12

Applied Major Instrument** 16-26
  Two hours credit per semester in 1st & 2nd years
  Four hours credit per semester in 3rd & 4th years
  Two hours credit for graduation recital
    The Church Music Major will elect applied music for two hours per semester for four years and would not be expected to give a graduating recital.

Applied Secondary Instrument 4
  Secondary Instrument selected to relate to Major Applied field and elected for one hour credit each semester for two years.

Related Courses 4-8
  Piano, Organ, & Voice Majors: Repertoire and Pedagogy .... 4 hours
  Wind, String, & Church Music Majors: Materials, Pedagogy, Arranging, Conducting, Arranging, Orchestration, and Choral Materials (Church Music only) .... 8 hours

Ensembles***

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* Students electing this degree program will be required to pass a proficiency examination in the major performance area before final admission to this degree program is granted.

** During the junior year, a one-half recital is required; during the senior year, a full recital is required.

*** Students must be enrolled in a major ensemble which reflects his major applied area during each semester of residence. Additional hours in chamber music, accompanying, opera workshop, and the like, on the recommendation of the Department of Music.

SUMMARY OF COURSES FOR THE BACHELOR OF ARTS

with Major or Minor in Music

MAJOR IN MUSIC WITH RIGHT OF TEACHING

General Academic (see outline for Bachelor of Music Education)

Education and Psychology (see outline for Bachelor of Music Education)

Music-Vocal or Instrumental

Theory 8
  Music 181, 182, 191, 192
History and Literature 9
  Music 272, 371, 372
Applied Major (Piano or Voice) 4
Secondary Piano 2
  Music 110, 111

Techniques and Applied Class	3-9
Vocal Major: Music 366, and Music 320 for Piano Students	
Instrumental Major: Music 130, 131, 251, 253, 350, 353, 354, 366	
Music Education	8
Music 367 or 368, and 378, 379	
Ensembles (selected in consultation with Advisor)	

MAJOR IN MUSIC WITHOUT RIGHT OF TEACHING

General Academic (see requirements in previous section of the Catalogue)	
Music 181, 182, 191, 192	8
Music 272, 371, 372	9
Electives in Music	7

MINOR IN MUSIC WITHOUT RIGHT OF TEACHING

Courses selected in consultation with the Chairman of the Department of Music

BACHELOR OF MUSIC EDUCATION
with Voice or Keyboard Emphasis

The first two years of this curriculum may be found in the Central University College section.

Junior Year

Applied	1	1	Major Instrument
Music 350	—	1	Woodwinds Instrument Class I
Music 366	2	—	Conducting
Music 371, 372	3	3	Music History I & II
Music 378, 379	3	3	Music Education: Principles and Practices I & II
Ensembles	½	½	Chorus, Band or Orchestra
English electives	3	3	
Social Science elective	—	3	
Science elective	3		
Education 315, 316	2	2	Human Development
	17½	16½	

Senior Year

Applied	1	—	Major Instrument
Music 320 (Keyboard only)	1	—	Voice Class
Music 367	—	2	Instrumental Methods & Materials
Music 368	—	2	Choral Methods & Materials
Music 380	2	—	Form and Analysis
Music 383	2	—	Orchestration
Ensembles	½	—	Chorus, Band or Orchestra
Social Science elective	3		
Science elective	3		
Education 364	—	4	Fundamentals of Secondary Education
Education 441	3	—	Elementary School Curriculum
Education 463	—	10	Supervised Student Teaching
	15½	18	

with Wind of String Emphasis

The first two years of this curriculum may be found in the Central University College section.

Junior Year

Applied	1	1	Major Instrument
Music 350, 353	1	1	Woodwinds Instrument Class I & II
Music 354	1	—	Percussion Class
Music 366	—	2	Conducting
Music 371, 372	3	3	Music History I & II
Music 378, 379	3	3	Music Education: Principles and Practices I & II
Ensembles	½	½	Band or Orchestra
English electives	3	3	
Social Science elective	—	3	
Science elective	3		
Education 315, 316	2	2	Human Development
	17½	18½	

Senior Year

Applied	1	—	Major Instrument
Music 320	1	—	Voice Class
Music 367	—	2	Instrumental Methods & Materials
Music 368	—	2	Choral Methods & Materials
Music 380	2	—	Form and Analysis
Music 383 or 584	2	—	Orchestration or Band Arranging
Ensembles	½	—	Band or Orchestra
Social Science elective	3		
Science elective	3		
Education 364	—	4	Fundamentals of Secondary Education
Education 441	3	—	Elementary School Curriculum
Education 463	—	10	Supervised Practice Teaching
	15½	18	

APPLIED MUSIC

Except as noted, instruction is given in individual lessons of one or two one-half hour periods each week. Piano or voice classes are two one-hour periods each week; string or wind classes, two periods.

Music 11. Piano. **No credit. I, II.**

Introductory course, preparatory to Music 112.

Music 12. Voice. **No credit. I, II.**

Introductory course, preparatory to Music 122.

Music 13a. Violin. **No credit.** I, II.

Introductory course, preparatory to Music 132.

Music 13b. Viola. **No credit.** I, II.

Introductory course, preparatory to Music 134.

Music 13c. Violoncello. **No credit.** I, II.

Introductory course, preparatory to Music 136.

Music 15. Wind Instruments. **No credit.** I, II.

Introductory course, preparatory to Music 152, any of the woodwind or brass instruments.

Music 110. Class Piano. **One hour.** I, II.

Introductory course for vocal and instrumental students to meet the piano requirements for secondary piano as follows: play simple piano accompaniments at sight; play easier choral 4-part folk songs and hymns; harmonize, at sight, simple tunes; exhibit reasonable competency in transposition.

Music 111. Class Piano. **One hour.** I, II.

Prerequisite: Grade of "B" in Music 110.

Continuation of Music 110.

Music 112. Piano. **One or two hours.** I, II.

One or two lessons per week.

Music 112a. Piano. **One or two hours. I, II.**

Prerequisite: Music 111 with a grade of "B" or permission of instructor.

One or two lessons per week with an emphasis upon accompaniments.

Music 122. Voice. **One or two hours. I, II.**

One or two lessons per week.

Music 130. String Instrument Class I. **One hour. I.**

A class in string instruments with practical instruction in methods of fingering, care of the instruments, tone production and tuning. Group instruction to prepare for the teaching of strings in class and for the training of the string section of a school orchestra. First semester is devoted to the study of one instrument.

Music 131. String Instrument Class II. **One hour. II.**

Continuation of Music 130. Attention given to string instruments not studied during the first semester.

Music 132. Violin. **One or two hours. I, II.**

One or two lessons per week.

Music 134. Viola. **One or two hours. I, II.**

One or two lessons per week.

Music 136. Violoncello. **One or two hours. I, II.**

One or two lessons per week.

Music 142. Organ. **One or two hours. I, II.**

Prerequisite: Four years of piano study or the equivalent.

One or two lessons per week.

Music 152. Wind Instrument. **One or two hours. I, II.**

One or two lessons per week.

Music 251. (Formerly Music 351) Brass Instrument Class I. **One hour. I.**

A class in brass instruments with practical instruction in methods of fingering, care of the instruments, tone production and tuning. Group instruction to prepare for the teaching of brass instruments in the band or orchestra. Some examination of materials suitable for beginning instrumental programs.

Music 253. Brass Instrument Class II. **One hour. II.**

Continuation of Music 251.

Music 312. Piano. **One or two hours. I, II.**

Prerequisite: Junior standing in music, or the equivalent.

One or two lessons per week.

Music 320. Class Voice. **One hour. I.**

A course in basic vocal techniques with emphasis on developing the voice for both solo and choral use.

Music 322. Voice. **One or two hours. I, II.**

Prerequisite: Junior standing in music, or the equivalent.

One or two lessons per week.

Music 332. Violin. **One or two hours. I, II.**

Prerequisite: Junior standing in music, or the equivalent.

One or two lessons per week.

Music 334. Viola. **One or two hours. I, II.**

Prerequisite: Junior standing in music, or the equivalent.

One or two lessons per week.

Music 336. Violoncello. **One or two hours. I, II.**

Prerequisite: Junior standing in music, or the equivalent.

One or two lessons per week.

Music 338. String Bass. **One or two hours. I, II.**

Prerequisite: Junior standing in music, or the equivalent.

One or two lessons per week.

Music 342. Organ. **One or two hours. I, II.**

Prerequisite: Junior standing in music and four semesters of Music 142, or the equivalent.

One or two lessons per week.

Music 350. Woodwind Instrument Class I. **One hour.** I.

A class in woodwind instruments with practical instruction in methods of fingering, care of the instruments, tone production and tuning. Group instruction to prepare for the teaching of woodwind instruments in the band or orchestra. Some examination of materials suitable for beginning instrumental programs.

Music 352. Wind Instrument. **One or two hours.** I, II.

Prerequisite: Junior standing in music, or the equivalent.

One or two lessons per week.

Music 353. Woodwind Instrument Class II. **One hour.** II.

Continuation of Music 350.

Music 354. Percussion Class. **One hour.** I.

A class in percussion instruments with primary emphasis on snare drumming, rudiments, teaching techniques, etc. Experience on all related percussion instruments: bass drum, tympani, and others. Some experience with mallet instruments: marimba, xylophone, bells, and others.

MUSIC ENSEMBLES*

Performing ensembles in the Department of Music are open to all students enrolled in the University and to qualified persons not enrolled. Interested persons and students are invited to participate and should contact the director of each activity to arrange for an audition.

Music 125, 225, 325, 425. Choir. **One-half hour.** I, II.

Rehearsal and performance of choral literature of the highest standard. The choir appears frequently both on and off the campus and assists in various college programs. Three or more rehearsals per week.

Music 126, 226, 326, 426. Chamber Choir. **One-half hour.** I, II.

Rehearsal and performance of the finest music written for the small vocal ensemble. Concerts are given both on and off the campus. Three or more rehearsals per week.

Music 127, 327. Opera Workshop. **One-half hour.** A.

Participation in and presentation of opera scenes; singing, stage movement and dramatic interpretation.

Music 135, 235, 335, 435. Orchestra. **One-half hour.** I, II.

Rehearsal and performance of the finest orchestral literature from the Baroque to the Contemporary eras in music. Concerts are given both on and off the campus. Three or more rehearsals per week.

Music 155, 255, 355, 455. Band. **One-half hour.** I, II.

Rehearsal and performance of standard band literature. Band includes both marching and concert units. Concerts are given both on and off the campus. Three or more rehearsals per week.

Music 156, 256, 356, 456. Wind Ensemble. **One-half hour.** I, II.

Rehearsal and performance of the finest band literature featuring the small ensemble. Concerts are given both on and off the campus. Three or more rehearsals per week.

Music 205. Chamber Music. **One-half hour.** I, II.

The study and performance of standard chamber music literature, quartets, quintets, etc. Open to pianists, vocalists, and string and wind instrument players upon the recommendation of the instructor. Course may be repeated.

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* Note: Consecutive semesters in Music Ensembles will be required for credit, any two consecutive semesters will earn one hour of credit.

MUSIC

Music 181. Harmony I. **Two hours.** I, II.

Scales, intervals and the primary triads; the cadence, melodic analysis and writing; four-part writing; non-harmonic tones and harmonization of melodies.

Music 182. Harmony II. **Two hours.** I, II.

Prerequisite: Music 181 with a grade of "C".

Continuation of Music 181; use of secondary triads and inversions; figured bass harmonizations; modulations to closely-related keys; elementary composition; secondary seventh chords; keyboard harmonizations.

Music 191. Sight Singing and Ear Training I. **Two hours.** I, II.

Rhythmic drill; sight-singing of melodies in major and minor keys and in various clefs; interval drill; rhythmic, melodic and harmonic dictation.

Music 192. Sight Singing and Ear Training II. **Two hours.** I, II.

Prerequisite: Music 191 with a grade of "C".

Continuation of Music 191; coordination of aural activities with the written work in Music 182.

Music 271. The Enjoyment of Music. **Three hours.** I, II.

Not open to music majors.

A course designed to provide the general college student with a cultural background in music. Masterpieces of music, composers, and musical techniques are presented through listening materials and through concert attendance.

Music 272. (Formerly Music 271) Basic Music Literature. **Three hours.** I.

For music majors; others admitted by permission of the instructor.

A course in the materials of music literature intended to precede a more intensive study of music history and musical form. Elements of music, basic forms, and styles are presented through the standard concert repertoire.

Music 281. Harmony III. **Two hours.** I, II.

Prerequisite: Music 182 with a grade of "C".

Study of modulation, secondary dominants, diminished seventh chords; modulation to distant keys and transposition; composition in short instrumental forms; additional work at the keyboard.

Music 282. Harmony IV. **Two hours.** I, II.

Prerequisite: Music 281 with a grade of "C".

Study of chromaticism, chords of the augmented sixth, and 9th, 11th, and 13th chords; continuation of analysis and composition; additional work at the keyboard.

Music 291. Sight Singing and Ear Training III. **Two hours.** I, II.

Prerequisite: Music 192 with a grade of "C".

Sight-singing of melodies; melodic dictation of modal melodies; harmonic dictation of all triads, seventh chords and inversions.

Music 292. Sight Singing and Ear Training IV. **Two hours.** I, II.

Prerequisite: Music 291 with a grade of "C".

Singing of contemporary melodies and anthems; harmonic dictation of advanced materials using terminology of related studies.

Music 331. String Pedagogy. **Two hours.** A.

Care and repair of stringed instruments; actual teaching of preparatory students under supervision of the instructor; seminars on string pedagogy involving clinical observation of preparatory students; evaluation of basic string method publications and repertory.

Music 360. (Formerly Music 260) Public School Music. **Three hours.** I, II.

Open to Elementary Education Majors, others by permission of instructor.

Materials and methods designed to provide the Grade Teacher with sufficient knowledge and skills to teach music in the classroom. Attention is given to notation, rhythmic participation, rhythm and melody instruments, creative activities, and listening experiences.

Music 361. Teaching Repertory, Piano. **One hour.** I, II.

Prerequisite: Junior standing in music.

A course designed to widen the student's acquaintance with piano literature, to give him a repertoire of teaching material, and to provide a knowledge of teaching procedures.

Music 362. Teaching Repertory, Voice. **One hour.** I, II.

Prerequisite: Junior standing in music.

A course designed to widen the student's acquaintance with voice literature, to give him a repertoire of teaching material, and to provide a knowledge of teaching procedures.

Music 363. Grade Methods and Materials. **Two hours.** I, II.
Prerequisite: Junior standing in music.
A course in the teaching and supervision of music in the grades, designed primarily for music majors.

Music 364. High School Music. **Two hours.** I, II.
A course in the organization, presentation and administration of high school music, including the junior high school, designed primarily for music majors.

Music 365. Junior High School Music. **Two hours.** I, II.
A course in the organization, presentation and administration of junior high school music, with special emphasis on the general music class; designed primarily for music majors.

Music 366. Conducting. **Two hours.** I, II.
Prerequisite: Junior standing in music.
A course in the basic techniques of instrumental and choral conducting.

Music 367. Instrumental Methods and Materials. **Two hours.** I, II.
Prerequisite: Junior standing in music.
A course designed to acquaint the student with the role, objectives and methods of instrumental music in the public schools.

Music 368. Choral Methods and Materials. **Two hours.** I, II.
Prerequisite: Junior standing in music.
A course designed to acquaint the student with the role, objectives and methods of choral music in the public schools.

Music 371. Music History I. **Three hours.** I.
Prerequisite: Music 271, 272. or permission of instructor.
A survey of music history from its beginnings through the Baroque era.

Music 372. Music History II. **Three hours.** II.
Prerequisite: Music 271, 272, or permission of instructor.
A survey of music history from the Classic era to the present.

Music 378. Music Education: Principles and Practices in Grades One through Twelve I. **Three hours.** I.
Prerequisite: Junior standing in music.
An integrated sequence of courses designed to acquaint the student with a balanced curriculum in music education in the public schools. Emphasis will be placed on understanding and planning a developmental sequence of musical experiences to assure the sound musical growth of children and youth from kindergarten through the twelfth grade. Materials will be drawn from those in use in the schools in the Commonwealth of Kentucky. Three lecture classes with a fourth class for independent study groups or observation in the public schools.

Music 379. Music Education: Principles and Practices in Grades One through Twelve II. **Three hours.** II.
Prerequisite: Junior standing in music and Music 378.
Continuation of Music 378.

Music 380. Form and Analysis. **Two hours.** I.
Prerequisite: Junior standing in music.
Emphasis on the materials of form; the study of small part-forms with attention to motives, phrases, periods, cadences; compound forms; large instrumental forms; large and small vocal forms.

Music 381. Counterpoint I. **Two hours.** A.

Music 382. Counterpoint II. **Two hours.** A.

Music 383. Orchestration. **Two hours.** I.

Music 481. Canon and Fugue I. **Two hours.** A.

Music 482. Canon and Fugue II. **Two hours.** A.

Music 513. Pedagogy of Piano. **Two hours.** A.
Prerequisite: Music 312, or a demonstrated proficiency in piano.
This course is designed to enlarge the teaching repertory of the upper division or graduate piano student through detailed study of modern teaching methods and techniques.

Music 523. Pedagogy of Voice. **Two hours.** A.

This course is designed to give the student a thorough background in repertoire for voice, and a knowledge and application of teaching procedures.

Music 553. Pedagogy of Wind Instruments. **Two hours.** A.

Music 560. (Formerly Music 261, 460) Public School Music II. **Three hours.** A.

Prerequisite: Music 360.

A course designed to give more detailed and extensive study of music teaching procedures in the elementary grades. To give the teachers of these grades experience in compiling and using materials which may be taken directly into the classroom.

Music 561. (Formerly Music 461) Band and Orchestra Procedures and Materials I. **Two hours.** A.

Analysis and organization of various courses of study for instrumental groups of varying abilities; rehearsal routines; training student sectional leaders; duties which may be assumed by students; adaptation of practice quarters to fit acoustical needs; program mechanics for public appearances; publicizing and interpreting music activities; care of equipment; program and teaching materials; consideration of the modified Prescott system and similar courses of study.

Music 562. (Formerly Music 462) Band and Orchestra Procedures and Materials II. **Two hours.** A.

Continuation of Music 561.

Music 563. (Formerly Music 463) Teaching Piano in Classes. **Two hours.** I, II.

Prerequisite: Three years of piano study at the college level, or the equivalent.

The study of methods and materials used in the teaching of piano classes.

Music 583. (Formerly Music 483) Composition. **Two hours.** A.

Music 584. (Formerly Music 384) Band Arranging. **Two hours.** A.

Prerequisite: Junior standing in music.

A primary course in instrumentation and arranging for the band medium, including scoring for small ensembles, marching band, concert band, and other combinations of wind and percussion instruments.

Music 585. Choral Arranging. **Three hours.** A.

Prerequisite: Junior standing in music.

An introductory course in arranging for typical junior and senior high school vocal ensembles.

GRADUATE DIVISION COURSES

Music 612. (Formerly Music 512) Piano. **One to four hours.** A.

Prerequisite: Music 312. Four years or equivalent, as demonstrated by the student's proficiency on the instrument.

This is a continuation on the graduate level, requiring more work of better quality than is required on the undergraduate level.

Music 622. (Formerly Music 522) Voice. **One to four hours.** A.

Prerequisite: Music 322.

This course is designed to enlarge the teaching repertoire of the graduate voice student. Emphasis will be placed on cantatas, oratorios, and operas.

Music 630. (Formerly Music 530) Problems and Research in the Class Teaching of Strings. **Three hours.** A.

A graduate course in the problems and methods of the teaching of strings in classes, with consideration of the homogenious and the heterogeneous class, research in available materials, with attention to their actual success in class teaching.

Music 631. (Formerly Music 531) Curriculum Practices and Trends in the Teaching of Stringed Instruments. **Three hours.** A.

A course designed for the graduate music student whose major applied interest is in strings, with attention to the development of teaching procedures for the various instruments particularly as their problems become more divergent.

Music 632. (Formerly Music 532) Violin. **One to four hours.** A.

Prerequisite: Music 332. Four years or equivalent, as demonstrated by the student's proficiency on the instrument.

Music 633. (Formerly Music 533) Special Problems in String Teaching. **One to three hours.** A.

Music 636. (Formerly Music 536) Violoncello. **One to four hours.** A.

Music 642. (Formerly Music 542) Organ. **One to four hours.** A.

Music 652. (Formerly Music 552) Wind Instrument. **One to four hours.** A.

Music 665. (Formerly Music 565) Music in Junior High School. **Three hours.** A.

A consideration of the purposes of the junior high school general music class, of the purposes of the junior high school general music class, of the needs and interests of the pupils, and of methods and materials of instruction.

Music 671. (Formerly Music 571) Music History Survey to the Romantic Period. **Three to four hours.** A.

A detailed and intensive study of music history and of music literature to the end of the classical period.

Music 672. (Formerly Music 572) Music History Survey from Romantic Period to the Present. **Three to four hours.** A.

A continuation of Music 671.

Music 676. (Formerly Music 576) Current Trends in Elementary Music. **Three hours.** A.

A summer workshop for elementary teachers and music specialists designed to explore current thought and practices in elementary school music; knowledge of society, the learner, and the learning process, the structure of music, and ways of behaving in music will be related to a practical program of experiences designed to promote children's musical growth. Emphasis will be placed on learning through doing.

Music 677. (Formerly Music 577) Practicum in Music Education. **Two hours.** A.

Consideration of problems encountered at the secondary level in the teaching of music, with emphasis on instrumental, choral, and music literature procedures. Discussions, lectures, and readings will be coupled with observation and participation of students in the Stephen Foster Music Camp. Offered during Summer Session only.

Music 678. (Formerly Music 578) Principles of Music Education. **Three hours.** I.

Prerequisite: Graduate status.

Presentation and discussion of basic educational principles and their implications for music education, with reference to all types of school situations. Emphasis placed upon the educative process, implications of human growth and development for music programs, planning for musical growth, guiding learning experiences in music, and evaluating pupil growth in music.

Music 679. (Formerly 579) Foundations of Music Education. **Three hours.** II.

Prerequisite: Graduate status.

An examination of the historical, philosophical and psychological foundations of music education and their relationship to curriculum development; development of musicianship; organization of the music education program; music reading; methods of teaching; administration and supervision in music; evaluation in music education.

Music 680. (Formerly Music 580) Field Work in Music Education. **Three hours.** A.

Prerequisite: Music 678 or 679.

Professional activities in the field under the guidance and supervision of members of the music department staff. Course emphasis will be on curriculum improvement through student work on projects and problems faced in actual teaching situations. Selected readings pertinent to individual problems and needs.

Music 681. (Formerly Music 581) Acoustics, Construction and Development of Musical Instruments. **Three hours.** A.

Prerequisite: Music 253 and 353, or the equivalent.

A graduate research course, investigating the historical development, the construction, the acoustical properties of wind instruments. The student is expected to complete three research subjects each semester.

NOTE: During semesters when courses listed above are not offered as regular classes, they may be taken as individual instruction, under the same arrangements as instruction in Applied Music, with the approval of the Chairman of the Department of Music.

PHILOSOPHY

A Department of Philosophy will be established, effective September 1, 1966. The course offerings will be announced in the Schedule of Classes. Initially they will be courses which will support the offerings in other disciplines and will be taken for elective credit. A major and minor in philosophy will be established in the future in accordance with demand.

PHYSICAL EDUCATION

C. T. Hughes, Chairman

Recommended Curriculum for a major in the area of Health, Physical Education and Recreation with right of teaching certificate — women. The first two years of this curriculum may be found in the Central University section.

Third Year

First Semester	Hours	Second Semester	Hours
Education 315	2	Education 316	2
Health 315	2	Health 365 or 366	2
Health 364	2	Physical Education 311	2
Physical Education 300	2	Physical Education 320	2
Physical Education 310	2	Physical Education 322	2
Physical Education 325	2	Physical Education 326	3
Physical Education 354	2	Physical Education 352	2
Physical Education 361	2		
	16		15

Fourth Year

Education 441	3	Education 364	4
Physical Education 400	3	Education 463	10
Physical Education 568	2	Physical Education 466	3
Physical Education 575	3		
Art 200 or Music 271	3		
Recreation 401	3		
	17		17

PHYSICAL EDUCATION

Recommended Curriculum for a first or second major in Physical Education with right of teaching certificate—women. The first two years of this curriculum may be found in the Central University section

Third Year

First Semester	Hours	Second Semester	Hours
Education 315	2	Education 316	2
Physical Education 300	2	Physical Education 311	2
Physical Education 310	2	Physical Education 322	2
Physical Education 325	2	Physical Education 352	2
Physical Education 361	2	Electives	8
Art 200 or Music 271	3		
Elective	3		
	16		16

Fourth Year

Education 441	3	Education 364	4
Physical Education 568	2	Education 463	10
Physical Education 575	3	Physical Education 466	3
Electives	8		
	16		17

Recommended curriculum for an area in Health, Physical Education and Recreation—Women.

Physical Education 125, 201, 207, 208, 245, 300, 310, 311, 320, 322, 325, 326, 352, 354, 361, 400, 401, 466, 568, 575. Health 202, 315, 364, 365 or 366.

Recommended curriculum for a first or second major in Physical Education—Women.

Physical Education 125, 207, 208, 245, 300, 310, 311, 322, 325, 326, 352, 361, 568, and 575.

Recommended curriculum for a minor in Physical Education—Women.

Physical Education 125, 207, 208, 245, 300, 310, 311, 322 and 568.

PHYSICAL EDUCATION

Recommended curriculum, for a major in the area of Health, Physical Education, and Recreation with right of teaching certificate—men. The first two years of this curriculum may be found in the Central University College section.

Third Year

First Semester	Hours	Second Semester	Hours
Education 315	2	Education 316	2
Health 315	2	Health 366	2
Health 364	2	Physical Education 320	2
Physical Education 300	2	Physical Education 322	2
Physical Education 325	2	Physical Education 326	3
Physical Education 367	1	Physical Education 368	1
Approved Natural Science	3	Recreation 201	3
Art 200 or Music 271	3	Approved Natural Science	3
	17		18

Fourth Year

Education 441	3	Education 364	4
Health 410	2	Education 463	10
Physical Education 400	3	Physical Education 466	3
Recreation 401	3		
Physical Education 568	2		
Physical Education 575	3		
Elective Coaching	2		
	18		17

PHYSICAL EDUCATION

Recommended curriculum for a major in Physical Education with right of teaching certificate—men. The first two years of this curriculum may be found in the Central University College section

Third Year

First Semester	Hours	Second Semester	Hours
Education 315	2	Education 316	2
Physical Education 300	2	Physical Education 322	2
Physical Education 325	2	Physical Education 326	3
Physical Education 367	1	Physical Education 368	1
Elective Coaching	2	Electives	8
Art 200 or Music 271	3		
Elective	4		
	16		16

Fourth Year

Education 441	3	Education 364	4
Physical Education 568	2	Education 463	10
Physical Education 575	3	Physical Education 466	3
Elective Coaching	2		
Electives	6		
	16		17

Recommended curriculum for an area in Health, Physical Education and Recreation—Men.

Physical Education 125, 201, 215, 216, 300, 320, 322, 326, 367, 368, 400, 401, 466, 568, 575, 4 hours elective in coaching. Health 202, 315, 364, 366, 410, 480.

Recommended curriculum for a major in Physical Education —Men.

Physical Education 125, 215, 216, 300, 322, 325, 326, 367, 368, 400, 466, 568, 575; six hours elective from Physical Education 261, 360, 362, 420.

Recommended curriculum for a second major in Physical Education —Men.

Physical Education 125, 215, 216, 300, 322, 325, 326, 367, 368, 400, 568, 575; six hours elective from Physical Education 261, 360, 362 and 420.

Recommended curriculum for a minor in Physical Education —Men.

Physical Education 125, 215, 216, 300, 322, 367, 368, 568; six hours elective from Physical Education 261, 360, 362, 400, 420 and 575.

Physical Education 125. Introduction to Physical Education. **Two hours.** I, II.

Orientation designed to provide an interpretation of the profession. Includes philosophy, aim, objectives scope, interdisciplinary bases, current problems, professional leadership, publications, and career opportunities.

Physical Education 201. (Formerly P. E. 370)—Camping and Outdoor Recreation. **Three hours.** II.

Students will study leadership aspects of the modern camp. Camp counseling will be stressed along with field experience in the camp setting. Nature will be studied as well as the techniques of conducting groups in outdoor settings.

Physical Education 207. Field Hockey, Soccer and Volleyball for Women. **Two hours.** I.

A study of rules, basic skills, strategy, and teaching techniques related to field hockey, soccer and volleyball for women.

Physical Education 208. Basketball, Softball, and Track and Field for Women. **Two hours.** II.

A study of rules, basic skills, strategy and teaching techniques related to basketball, softball, and track and field for women.

Physical Education 215. (Formerly Physical Education 190.) Skills in Physical Education Activities. (Men). **Two hours.** I.

Students will study and practice the various skills required for participation in a variety of individual and team sports.

Physical Education 216. (Formerly Physical Education 190.) Skills in Physical Education Activities. (Men). **Two hours.** II.

A continuation of Physical Education 215.

Physical Education 245. (Formerly Physical Education 345) Fundamentals of Creative Movement. **Two hours.** I, II.

An introduction to modern dance and the fundamentals of movement and rhythm.

Physical Education 261. (Formerly Physical Education 24 and 265.) Coaching Baseball. **Two hours.** I, II.

Theory and practice in coaching the fundamentals of baseball; team offense and defense.

Physical Education 300. Folk and National Dancing. **Two hours.** I, II.

Prerequisite: Physical Education 115 or 116, Social Dance. Traditional and social dances of the United States and other countries.

Physical Education 310. Archery and Badminton for Women. **Two hours.** I, II.

A broad knowledge of content material and skills in performance of archery and badminton.

Physical Education 311. Recreational Sports and Tennis for Women. **Two hours.** II.

A broad knowledge of content material and skill in performance of recreational sports and tennis.

Physical Education 320. Kinesiology. **Two hours.** I, II.

Prerequisite: Biology 272. Fundamentals of body mechanics; movements of the human body.

Physical Education 322. (Formerly Physical Education 220.) Physical Education in the Elementary School (Grades 1-6). **Two hours.** I, II.

Theory and practice in the conduct of physical education for children in the elementary grades. Four laboratory hours.

Physical Education 325. (Formerly Physical Education 32.) Physiology of Activity. **Two hours.** I, II.

Prerequisite: Biology 272.

Effects of physical education activities on the various systems of the human body.

Physical Education 326. (Formerly Physical Education 126.) History and Principles of Physical Education. **Three hours.** I, II.

The course is designed to develop understanding and interpretation of the principles of a good physical education program. Contributions of historical programs to present day programs will be studied and evaluated.

Physical Education 340. Advanced Swimming and Water Safety. **Two hours.** II.

Prerequisite: To have passed the Red Cross Beginners and Intermediate swimming tests or their equivalent. A screening test will be given those who have not had the opportunity to take Red Cross tests to determine if they are eligible to take the class.

Emphasis on advanced skills in swimming and water safety in which the Red Cross Instructors Course in Water Safety will be taught.

Physical Education 352. Theory of Basketball and Softball for Women. **Two hours. II.**

Prerequisite: Physical Education 208. Theory, technique and practice in teaching and officiating basketball and softball.

Physical Education 354. Modern Dance Technique and Choreography. **Two hours. I, II.**

Prerequisite: Physical Education 245. A course in modern dance technique, improvisation, choreography, and production.

Physical Education 360. (Formerly Physical Education 37 and 260.) Coaching Basketball. **Two hours. I, II.**

Theory and practice in coaching the fundamentals of basketball; team offense and defense.

Physical Education 361. Theory of Field Hockey and Volleyball for Women. **Two hours. I.**

Prerequisite: Physical Education 207. Theory, techniques, and practice in teaching and officiating field hockey and volleyball.

Physical Education 362. (Formerly Physical Education 39 and 265.) Coaching Track and Field. **Two hours. II.**

Theory and practice in coaching fundamentals involved in track and field.

Physical Education 367. Basic Tumbling and Apparatus Activities. **One hour. I, II.**

Participation in tumbling exercises and stunts upon the horizontal bar, parallel bars, trampoline, long horse, and horse with pommels, for the prospective tumbling and apparatus teacher. Safety methods, squad procedures, and pupil leadership are stressed.

Physical Education 368. Advanced Tumbling and Apparatus Activities. **One hour. I, II.**

A continuation of Physical Education 367 with the emphasis on series exercises on the mats, trampoline, parallel bars, horse with pommels, and horizontal bar.

Physical Education 400. Organization of School Recreation Activities. **Three hours. I, II.**

Students will study problems related to directing recreational activities within a school system. Two hours of laboratory will be assigned each student so they will receive practical experience in directing a school recreation program.

Physical Education 401. Community Recreation. **Three hours. I, II.**

This course will present community organization for recreation. Administrative practices, legal aspects, principles of program, recruiting, selecting leaders, personnel practice, and public relations will be covered.

Physical Education 420. (Formerly Physical Education 42 and 260.) Coaching Football. **Two hours. I, II.**

Theory and practice in coaching the fundamentals of football; team offense and defense.

Physical Education 466. (Formerly Physical Education 366.) Curriculum and Methods for Teaching Physical Education. **Three hours. I, II.**

Theories of play; study of existing play programs; correlation with other subjects; games, skills, lesson planning and observation.

Physical Education 568. (Formerly Physical Education 46 and 468). Administration and Organization of Physical Education. **Two hours. I, II.**

Policies and procedures of administration on the elementary and secondary school level. Special emphasis on construction and care of facilities, equipment, and supervision of personnel.

Physical Education 570. (Formerly Physical Education 470.) Workshop for Women in Gymnastics, Track and Field, Synchronized Swimming, and Modern Dance. **One to four hours. A.**

A workshop designed for those women physical education teachers who wish to better acquaint themselves with skills in the conduct of gymnastics, track and field, synchronized swimming, and modern dance programs.

Physical Education 575. (Formerly Health 475 and Physical Education 475.) Tests and Measurements in Physical Education. **Three hours. I, II.**

The students become familiar with the various tests and measurements in this field. They learn how to give and score the tests, evaluate and use the results obtained in the testing program.

Physical Education 596. (Formerly Physical Education 496.) Workshop for Elementary Teachers in Physical Education Activities. **Three hours.** A.

This workshop will present a comprehensive review of techniques used in teaching physical education in the elementary grades. Emphasis will be placed on health evaluation, fitness testing, rhythmical activities, and game activities, tumbling and self-testing activities.

Physical Educaion 598. (Formerly Physical Education 498.) Athletic Coaching Workshop. **Three hours.** A.

A comprehensive review of fundamentals in coaching basketball, football, baseball, and track on both secondary and college levels. It will include lectures and demonstrations on offensive and defensive techniques to meet modern trends in sports today.

Physical Education 599. (Formerly Physical Education 499.) Implementing Physical Fitness. **Three hours.** A.

A course designed to assist physical education teachers in acquiring further competency in the conduct of fitness activities in a typical elementary and secondary school situation. Emphasis will be placed on the review of the fundamentals of testing, interpretation, and program planning necessary to meet the needs of pupils.

GRADUATE DIVISION COURSES

Physical Education 649. (Formerly Physical Education 549.) Advanced Study in History, Principles, and Modern Trends in Physical Education. **Three hours. I.**

Students will review history and principles and their application to new trends in this field of study. (A research project is required.)

Physical Education 650. (Formerly Physical Education 550.) Curriculum Design in Physical Education. **Three hours.** I.

Problems relating to design of programs in physical education will be studied. A curriculum project will be developed by each student.

Physical Education 651. (Formerly Physical Education 551.) Planning and Construction Techniques of Facilities and Equipment in Physical Education. **Two hours.** II.

The problems relating to programming facilities and equipment in physical education will be studied. Students will visit and make surveys of surrounding facilities under the direction of an instructor.

Physical Education 662. (Formerly Physical Education 562.) Adapted Physical Education. **Three hours.** II.

Students will study the basic principles of a good adapted program for handicapped students. A practical project will be required of each student.

Physical Education 669. (Formerly Physical Education 569.) Organization and Administration of Athletics. **Three hours.** A.

This course deals with the organization of high school and college athletics with reference to national, state, and local control. It considers staff, program, budget, health and safety, insurance, facilities, and other phases of administration.

Physical Eudcation 680. (Formerly Physical Education 580.) Interpretation of Data in Physical Education. **Three hours.** II.

Methods and techniques in statistics and their interpretation as related to physical education activities will be studied. Students will be assigned statistical problems with physical education data.

Physical Education 691. (Formerly Physical Education 591.) Independent Problems in Physical Education. **Three hours.** I.

The students will solve an independent problem in physical education. The solution of this problem will be made by using proper research techniques and through scheduled conferences with an assigned member of the physical education staff.

PHYSICS

Ted George, Chairman

Recommended curriculum for a major in Physics with right of teaching certificate. The first two years of this curriculum may be found in Central University College section

Requirements for a major in Physics with right of teaching certificate are: Physics 201, 202 and a minimum of 18 hours in Physics numbered 300 and above. In addition, Chemistry 111, 112 are required and Mathematics courses necessary to meet prerequisites for Physics courses. At the discretion of the Chairman of the Physics Department, Physics 131 may be substituted for Physics 201.

Third Year

First Semester	Hours	Second Semester	Hours
Chemistry 111	4	Chemistry 112	5
Education 315	2	Education 316	2
English 211	3	English 212	3
Mathematics 352	3	Humanities elective	3
Physics electives	6	Physics electives	6
	18		19

Fourth Year

Biological Science	3	Education 364	4
Humanities elective	3	Education 463	10
Physics elective	6	Science 410	3
Electives	6		
	18		17

Recommended curriculum for a second major in Physics with right of teaching certificate

A student with a first major in some other department may take the following courses for a second major in Physics with right of teaching certificate: Physics 201, 202 and 14 additional hours of Physics numbered 300 or above as directed by the Chairman of the Physics Department. Also Chemistry 111, 112 are required. At the discretion of the Chairman of the Physics Department, Physics 131 may be substituted for Physics 201.

Recommended curriculum for a minor in Physics with right of teaching certificate

A student with a major in another department may take the following courses for a minor in Physics: Physics 131, 132 or Physics 201, 202 and a minimum of eight additional hours of Physics numbered 300 or above. These courses should be selected in consultation with the Chairman of the Physics Department. In addition, 9 hours of Chemistry are recommended.

PHYSICS

Requirements for a major in Physics without right of teaching certificate are: Physics 201, 202 and a minimum of 24 hours in Physics numbered 300 and above. In addition Chemistry 111, 112 are required and the Mathematics courses necessary to meet prerequisites for Physics courses. At the discretion of the Chairman of the Department of Physics, Physics 131 may be substituted for Physics 201.

Standard recommended curriculum for a major in Physics without right of teaching certificate. The first two years of this curriculum may be found in Central University College section

Third Year

First Semester	Hours	Second Semester	Hours
Foreign Language	3	Foreign Language	3
Chemistry 111	4	Chemistry 112	5
Social Science elective	3	Social Science elective	3
Physics elective	5	Physics electives	6
Mathematics 554	3		
	18		17

Fourth Year

Foreign Language	3	Foreign Language	3
Mathematics 408	3	Mathematics 409	3
Physics electives	3	Physics electives	3
Electives	6	Electives	9
Biological Science	3		
	18		18

Alternate recommended curriculum for a major in Physics without right of teaching certificate. The first two years of this curriculum may be found in Central University College section

Third Year

First Semester	Hours	Second Semester	Hours
English 211	3	English 212	3
Mathematics 352	3	Mathematics 553	3
Physics 300	3	Physics 307	4
Foreign Language	3	Foreign Language	3
Social Science elective	3	Physics elective	5
Biological Science	3		
	18		18

Fourth Year

Foreign Language	3	Foreign Language	3
Physics elective	6	Physics elective	6
Electives	9	Electives	9
	18		18

Recommended curriculum for a second major in Physics without right of teaching certificate

A student with a first major in some other department may take the following courses for a second major in Physics: Physics 201, 202 and 24 hours in Physics numbered 300 and above. At the discretion of the Chairman of the Physics Department, Physics 131 may be substituted for Physics 201. Also Chemistry 111, 112 are required as well as the courses in Mathematics necessary to meet prerequisites of the Physics courses.

PHYSICS

Physics 107. Slide Rule Theory and Practice. **One hour. I, II.**

Designed to aid the student in making mathematical computations easily and rapidly.

Physics 131. Elementary Physics. **Five hours.** I, II.

Prerequisite: One unit each of high school algebra and plane geometry. The fundamental ideas of mechanics, heat and sound. Three lecture and four laboratory hours.

Physics 132. Elementary Physics. **Five hours. I, II.**

Prerequisite: Physics 131 .

The fundamental ideas of electricity, magnetism and optics. Three lecture and four laboratory hours.

Physics 201. (Formerly called Mechanics, Molecular Physics and Heat) Mechanics, Heat and Sound. **Six hours. I.**

Prerequisite: Trigonometry.

Falling bodies; Newton's laws of motion and applications to practical problems; curvilinear motion; composition and resolution of forces; the laws of equilibrium and their application to various problems; work and energy; machines; momentum; elasticity; simple harmonic motion; hydrodynamics; heat and molecular physics including thermometry, pressure, expansion of solids, liquids, and gases; sound and wave motion. Four lecture and four laboratory hours.

Physics 202. (Formerly called Electricity, Mangetism, Wave Motion, Sound and Light) Electricity, Magnetism and Optics. **Six hours. II.**

Prerequisite: Physics 201.

Electrostatics; the nature of electricity; magnetism; Ohm's law; measurement of electrical quantities; sources of electrical energy; Lenz's law; inductance and capacitance; alternating currents; electromagnetic waves; optics. Four lecture and four laboratory hours.

Physics 300. Modern Physics. **Three hours.** I.

Prerequisite: Physics 202 or Physics 132.

Corequisite: Mathematics 352.

The electron; positively charged particles; electric discharge in gases; x-rays and crystal structure; waves and particles; quantum theory; relativity, hydrogen atom and spectra; molecular motion; quanta and spectra.

Physics 306. Advanced General Laboratory. **Two hours. I, II.**

Corequisite: Physics 300.

Largely for students majoring or minoring in physics. Consists of the performance and reporting of a carefully selected group of experiments considerably more advanced than in the elementary laboratories. The experiments will spread across the various branches of physics and cover ideas and techniques considered essential to the training of a well-rounded physicist. Four laboratory hours per week.

Physics 307. Electronics. **Four hours. II.**

Prerequisite: Physics 202 or Physics 132.

Theory of thermionic tubes and solid state devices; rectifiers; amplifier circuit principles; modern pulse circuitry; the oscilloscope. Three recitation hours; two laboratory hours.

Physics 502. (Formerly Physics 302). Physical Optics. **Three hours.** A.

Prerequisite: Physics 201 or Physics 132.

Wave motion; reflection and refraction; further study of lenses; the telescope; dispersion; facts concerning the spectrum; interference; diffraction; plane polarized light; the electromagnetic theory of light; the quantum theory; origin of spectra. Three recitation hours.

Physics 503. (Formerly Physics 303.). Thermodynamics. **Three hours.** A.

Prerequisite: Physics 202.

Corequisite: Mathematics 352.

A study of temperature, thermodynamic systems, ideal gases, first and second law of thermodynamics, Carnot cycle, kelvin temperature scale, entropy.

Physics 506. (Formerly Physics 401). Physics for High School Teachers. **Three hours.** A.

Prerequisite: One year of college physics.

Topics from general physics designed to assure that the teacher is prepared to teach high school physics with ease and confidence. Topics from advanced physics and modern physics designed to give the teacher that extra knowledge which will enable him to teach with a greater understanding, and possibly inspire the students. Two hours lecture and two hours laboratory and discussion.

Physics 507. (Formerly Physics 402). Physics for High School Teachers. **Three hours.** A.

Prerequisite: Physics 506.

A continuation of Physics 506.

Physics 508. (Formerly Physics 360.) Topics in Physics for Teachers. **Four hour.** A.

Topics from general physics selected to aid the high school teacher of physics and general science to teach with greater confidence. Lecture three hours; laboratory and discussion two hours.

Physics 510. (Formerly Physics 310). Special Problems in Physics. **One to three hours.** A.

Prerequisite: Physics 202, Physics 306.

Working out of special laboratory experiments; development of new equipment; or solution of special mathematical problems related to physics.

Physics 511. (Formerly Physics 311). Special Problems in Physics. **One to three hours.** A.

Prerequisite: Physics 202, Physics 306.

This course is a continuation of Physics 510.

Physics 515. (Formerly Physics 315). Radioactivity and Nuclear Physics. **Three hours.** A.

Prerequisite: Physics 300.

Natural radioactivity; radiation detectors; induced radioactivity; Alpha, Beta, and Gamma rays; neutrons; other particles; cosmic radiation; nuclear fission; applications of radioactivity. Three recitations per week.

Physics 516. (Formerly Physics 304). Electricity and Magnetism I. **Three hours.** A.

Prerequisite: Physics 202.

Coresquisite: Mathematics 553.

An introduction by means of the calculus and vectors to the formulation and use of the principles of classical electricity and magnetism. Some of the topics treated are electric fields and potentials, capacitance, direct and transient currents, alternating currents. Three recitation hours per week. Offered on alternate years. Offered fall, 1966-67.

Physics 517. Electricity and Magnetism II. **Three hours.** A.

Prerequisite: Physics 516.

A continuation of Physics 516. Topics included are dielectrics, resistance, thermoelectricity, electromagnetic induction, magnetic properties of matter, Maxwell's equations. Three recitation hours per week. Offered on alternate years. Offered spring, 1966-67.

Physics 520. (Formerly Physics 415). Advanced Nuclear Laboratory. **Two hours.** A.

Corequisite: Physics 515.

Performance of approximately twelve experiments in nuclear physics; radiation instruments and methods; range and energy of particles; absorption, half-life; neutron moderators and neutron flux measurements; coincidence techniques.

Physics 525. (Formerly Physics 305). Electricity and Magnetism Laboratory. **Two hours.** A.

Prerequisite: Physics 132 or 202, or equivalent.

Calibration and use of advanced electrical instruments; precision measurements of inductance, capacitance, resistance, and voltage; basic experiments on vacuum tubes; use of cathode ray oscilloscope. Four laboratory hours per week.

Physics 556. (Also listed as Mathematics 556. Formerly Physics 456 and Mathematics 456). Vector Analysis. **Three hours.** A.

May be taken either in the Mathematics Department or Physics Department.

Prerequisite: Mathematics 352 and Physics 202.

The algebra and calculus of vectors. Applications of vector analysis to solution of problems in geometry and physics.

Physics 558. (Also listed as Mathematics 558.) Formerly Physics 455 and Mathematics 455). Classical Mechanics. **Three hours.** A.

May be taken either in the Mathematics Department or Physics Department.

Prerequisite: Physics 202.

Corequisite: Mathematics 553.

An introduction by means of the calculus to the formulation and use of the principles of classical mechanics. Some of the topics treated are force and motion of particles, work, Newton's Law of Gravitation, free and forced harmonic oscillations, translational and rotational motion of rigid bodies, wave motion. Three recitation hours per week. Offered on alternate years. Offered fall, 1967-68.

Physics 559. (Also listed as Mathematics 559). Classical Mechancis II. **Three hours.** A.

May be taken either in the Mathematics Department or Physics Department.

Prerequisite: Physics 558 or Mathematics 558.

A continuation of Physics 558. Some of the topics discussed are central forces, generalized coordinates, LaGrange's equations, Hamilton's equations, vibrating systems and normal coordinates. Three recitation hours per week. Offered on alternate years. Offered spring, 1967-68.

POLITICAL SCIENCE

D. B. Pettengill, Chairman

A student may major in Political Science (with or without right of teaching certificate) by taking a minimum of 30 semester hours. The student must take Political Science 100, 101, and six hours from 103, 201, or 202. At least fifteen hours must be taken in upper division courses and three of these hours must be in political theory. A Political Science major should take twelve hours in a foreign language if he begins the language in college, or six hours if he continues the language at the intermediate level.

It is recommended that a Political Science major take a minor in another social science or in English.

A student may minor in Political Science by taking a minimum of 18 semester hours. He must take Political Science 100, 101. Nine hours must be in upper division courses.

POLITICAL SCIENCE

Recommended curriculum for a major in Political Science with right of teaching certificate. The first two years of this curriculum may be found in the Central University College section

Third Year

First Semester	Hours	Second Semester	Hours
Education 315	2	Education 316	2
Health 201	3	Political Science Electives	6
Political Science Elective	3	Science or Mathematics	3
Physical Science	3	Electives	6
Electives	6		
	17		17

Fourth Year

Political Science Electives	9	Education 364	4
Electives	6	Education 463	10
		Social Science 466	3
	15		17

POLITICAL SCIENCE

Recommended curriculum for a major in Political Science without right of teaching certificate. The first two years of this curriculum may be found in the Central University College section

Third Year

First Semester	Hours	Second Semester	Hours
Health 201	3	Political Science electives	6
Political Science elective	3	Electives	10
Electives	10		
	16		16

Fourth Year

Political Science electives	6	Political Science elective	3
Electives	9	Electives	12
	15		15

Political Science 100. Introduction to Political Science. **Three hours.** I, II.

A survey of the political characteristics of modern democracies and dictatorships and their relation to governmental institutions and practices, with emphasis on the government of the United States.

Political Science 101. (Formerly Government 211) (Formerly called Principles of American Government) Introduction to American Government. **Three hours.** I, II.

The principles, functions, and basic political institutions of the American system of government at the national level.

Political Science 103. (Formerly Government 212) American State and Local Government. **Three hours.** I, II.

Prerequisite: Political Science 100.

Study of the institutions and processes of government of the fifty states and of the government of cities and counties.

Political Science 201. (Formerly Government 452) (Formerly called Introduction to Foreign Government.) Comparative Government. **Three hours.** I, II.

Prerequisite: Political Science 100.

A survey of the constitutional and political characteristics of Great Britain, France, Germany, and the Soviet Union to introduce the student to the diversity of constitutional forms and political forces.

Political Science 202. (Formerly Government 413) International Politics. **Three hours.** I, II.

Prerequisite: Political Science 100 or permission of instructor.

An introductory survey of basic principles and forces of international politics. Emphasis is placed on the modern state system, nationalism, national power, balance of power, international economics, diplomacy, and world organization.

Political Science 300. Survey of American Government. **Three hours.** A.

May not be taken for credit by students who have credit for Political Science 101.

This course is designed as an elective for students at the junior and senior levels who are not majors or minors in political science and who want a basic survey of American government as a part of their general background.

Political Science 305. Local Government and Administration. **Three hours.** A.

A survey of the history, legal basic, organization and the political and administrative functions and problems of counties, towns, special districts, municipalities and metropolitan areas.

Political Science 310. (Formerly called American Politics and Parties.) Amercan Politics: Parties, Public Opinion and Pressure Groups. **Three hours.** I.

Prerequisite: Political Science 101

The informal political institutions of American government. The functions, organization, financing of political parties, public opinion and pressure groups. Their relationship to democracy.

Political Science 311. American Politics: President and Congress. **Three hours.** II.

Prerequisite: Political Science 100 and 101.

The legislative process and executive-legislative relations.

Political Science 320. (Formerly Government 422) Introduction to Public Administration. **Three hours.** I.

Prerequisite: Political Science 101 or 103.

A study of the traditional and behavioral theories of organization, authority, decision-making, intra-organization communications and application of principles to the American bureaucracy by case studies. Designed for those interested in service in government, school administration, or large industry and for students of general political science.

Political Science 325. The Soviet Union in World Affairs. **Three hours.** I.

Prerequisite: Political Science 100 or permission of instructor.

A condensed and analytical review of Russian political culture and of Soviet political history. The background and nature of post-war Soviet problems in East Europe, Communist China, the West, disarmament, and domestic succession.

Political Science 330. Government and Business. **Three hours.** II.

Prerequisite: An introductory course in Political Science and three additional hours of political science, economics, or American history.

A study of public control for consumer welfare; maintaining and moderating competition; substituting regulation and public ownership for competition. Emphasis on anti-trust laws and administrative agencies.

Political Science 362. (Formerly Government 362) Government of Kentucky. **Three hours.** I, II.

Designed for those students interested in how Kentucky is governed. Covers the political setting, popular control of government, constitution, legislature, governor, courts, local government, finance, functions of government, and relation to national government.

Political Science 421. (Formerly Government 421) American Constitutional Law I. **Three hours.** I.

Prerequisite: Political Science 100 and six additional hours of political science, or graduate standing.

A study of the major provisions of the American Constitution and the way in which they have been interpreted by the Supreme Court. Supreme Court opinions are read and analyzed.

Political Science 422. American Constitutional Law II. **Three hours.** II.

Prerequisite: Political Science 100 and six additional hours of political science, or graduate standing.

A study of civil and political rights in the United States. Supreme Court opinions are read and analyzed.

Political Science 490. Independent Work in Political Science. **One to three hours.** A.

Prerequisite: Consent of Department.

Individual research and/or reading on a problem or area within the field of political science chosen by the student after consultation with the instructor. Regular reports and a final research paper are required.

Political Science 501. (Formerly Government 351 and Political Science 401) British Government and the Commonwealth. **Three hours.** I.

Prerequisite: Political Science 201 and either six additional hours of political science or six hours of English history, or graduate standing.

A study of the constitutional system and political institutions of Great Britain. Attention is given to the historical, geographical, social, and economic factors which influence the political system. The nature and development of the Commonwealth and the significance of the Commonwealth for Great Britain are examined.

Political Science 505. (Formerly Political Science 405) Government and Politics of the Far East. **Three hours.** I, II.

Prerequisite: Political Science 201, 202 and three additional hours of political science, or graduate standing.

A consideration of the modern political systems of Japan, Korea, Communist China and Nationalist China on Formosa. Some attention will also be paid to the nations of Southeast Asia.

Political Science 510. (Formerly Political Science 410.) American Foreign Policy. **Three hours.** II.

Prerequisite: Political Science 100 or Political Science 200 and Political Science 202, or graduate standing.

A study of the processes and content of United States foreign policy.

Political Science 515. (Formerly Political Science 415) Workshop in International Affairs. **Three hours.** A.

Explores major problems in international affairs. Covers various areas of the world with reference to significant background factors and the international problems of the people. Designed especially for secondary teachers in the social science field although open also to other qualified students. Lectures and discussions led by the director and visiting lecturers. Offered only during the summer session.

Political Science 520. Workshop in Government and Politics. **Three hours.** A.

A course designed to focus attention on major problem areas of Kentucky local government. A different area of concern will be explored each time the course is offered.

Political Science 530. (Formerly Political Science 430) Municipal Government and Administration. **Three hours.** II.

Prerequisite: Political Scence 101 or 103 or graduate standing.

A study of the powers, organization and current problems of municipalities and urban areas.

Political Science 555. (Formerly Government 455 and Political Science 455) History of Political Theory I. **Three hours.** I.

Prerequisite: Six hours in political science and six hours in history or economics, or graduate standing.

A survey of political thought from the time of Plato to the Reformation.

Political Science 556. (Formerly Government 456 and Political Science 456) History of Political Theory II. **Three hours.** II.

Prerequisite: Same as for Political Science 555.

A survey of political thought from the Sixteenth Century to the present.

Political Science 557. (Formerly Political Science 457) American Political Thought. **Three hours.** I.

Prerequisite: Six hours in political science and six hours in economics or history, or graduate standing.

An intensive exploration of the major currents in political thought which have justified and guided the growth of the American republic. Largely organized on a chronological basis, but delves in depth into the main schools of thought that have both reflected and energized the development of the American political process.

GRADUATE DIVISION COURSES

Political Science 630. Seminar in the Political Process. **Three hours.** A.

Prerequisite: Consent of the instructor.

An examination of the theories of community power structure; analysis of political activity by pressure groups; the legislative process; a survey and evaluation of sources for political information. The course will be conducted through discussion of problems arising in relationship between educational institutions and political affairs. Case studies and individual projects will comprise a substantial part of the content.

RECREATION

Recommended curriculum for a major in Recreation Program Administration without right of teaching certificate. The first two years of this curriculum may be found in the Central University College section

This degree is designed toward developing competences that are needed for Recreation Program Administration. It focuses upon planning, conducting, and administering recreation programs in a variety of settings and program fields.

The curriculum is a planned four year program that includes both non-credit and credit laboratory experiences and a minimum requirement of one hundred and thirty-six (136) semester hours of credit for the degree.

In the first two years of the program, the student is provided with the opportunity to become oriented with the recreation profession and to begin the development of a broad cultural background. The last two years are devoted mostly to course work in theory. skills, management, and field experience in order to develop a realistic understanding of the recreation field. Various departments offer a variety of courses which will enrich the training of majors in recreation.

Prior to the start of the third year, the student's progress will be evaluated via recorded grade point standing, achievement in major courses, and factors listed on a "Major's Evaluation Sheet."

During the student's remaining two years, provision is made within the curriculum to learn additional skills, techniques and knowledge that are essential to leadership in recreation administration. Opportunities are provided for the selection of electives. The final semester stresses program planning, advanced leadership techniques, and required field experience in recreation.

It is strongly recommended that each student seek summer employment in a recreation agency.

RECREATION

Third Year

First Semester	Hours	Second Semester	Hours
Industrial Arts 326	3	Music 271	3
Physical Education 300	2	Physical Education 322	2
Political Science 320	3	Physical Education 340	2
Recreation 310	3	Physical Education 400	3
Electives	6	Speech 131	3
		Electives	3
	17		16

Fourth Year

Recreation 401	3	Recreation 463	10
Recreation 402	2	Recreation 464	2
Recreation 403	3	Recreation 466	3
Speech 231	3		
Electives	6		
	17		15

RECREATION

Associate of Arts Degree in Recreation Supervision

To fill the vacuum created by the shortage of trained recreation leaders in the United States, a terminal two year Associate of Arts Degree in Recreation Supervision has been developed. Students successfully completing the requirements will be qualified to accept a variety of recreation positions. If at the end of the two years they desire to complete their college education, they may enter the Bachelor of Science Degree Program with little difficulty.

The curriculum for recreation supervision is a planned two-year program that includes non-credit laboratory experiences with a minimum requirement of sixty-six (66) semester hours of credit for a degree.

During the first year the student is provided with prescribed general education, orientation, and skill courses. These courses are designed to provide needed skills and a realistic understanding of the recreation profession.

In the second year there is a continuation of skill courses, and also courses designed to introduce the student to supervision and program planning. Also students are asked to broaden themselves through electing five to six hours of courses in specific recreation areas. Three semesters of non-credit field experience is required of each student.

It is strongly recommended that each student seek summer employment in a recreation agency.

ASSOCIATE OF ARTS DEGREE

Major in Recreation Supervision
Two Year Curriculum

First Year

First Semester	Hours	Second Semester	Hours
General Studies 101	3	General Studies 102	3
General Studies 140	3	General Studies 161	3
General Studies 180	1	General Studies 181	1
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 215	2	Physical Education 216	2
Recreation 100	2	Recreation 102	2
Speech 131	3	Recreation 201	3
	16		16

Second Year

Drama 100	3	Military Science 202 (Men) or Elective (Women)	2
Health 202	2	Physical Education 322	2
Industrial Arts 326	3	Physical Education 340	2
Military Science 201 (Men) or Elective (Women)	2	Recreation 402	2
Physical Education 300	2	Recreation 403	3
Psychology 211	3	Electives	5
Recreation 310	3		
	18		16

RECREATION

Recreation 100. Introduction to Recreation. **Two hours.** I.

A course designed to introduce the beginning student to the recreation profession. The nature of recreation and the individual, influence of leisure, and a discussion of the recreation philosophy and employment possibilities will also be covered.

Recreation 102. Recreation Leadership. **Two hours.** II.

Techniques of leadership in working with individuals and groups in various recreation settings will be stressed. Guidance and the supervision of paid and voluntary leadership will also be presented.

Recreation 201. (Formerly P. E. 370) Camping and Outdoor Recreation. **Three hours.** II.

Students will study leadership aspects of the modern camp. Camp counseling will be stressed along with field experience in the camp setting. Nature will be studied as well as the techniques of conducting groups in outdoor settings.

Recreation 310. Community Centers and Playgrounds. **Three hours.** I.

A comprehensive study will be made of facilities, equipment, leadership techniques, and programs on the playground and community center setting. Students will visit playgrounds and community centers to observe programs in action. Public relations as related to the public and news media will be covered.

Recreation 401. Community Recreation. **Three hours.** I, II.

This course will present community organization for recreation. Administrative practices, legal aspects, principles of program, recruiting, selecting leaders, personnel practice, and public relations will be covered.

Recreation 402. Social Recreation. **Two hours.** I, II.

Students will study various techniques of organizing individuals and groups for social activities. Practical work will be presented and required of students.

Recreation 403. Private and Voluntary Agency Recreation. **Three hours.** I, II.

Principles of administration leadership, facilities, program, as related to private and voluntary agencies will be studied. Visitation will be made to observe programs in action. Representatives of these agencies will be asked to present lectures.

Recreation 463. Professional Field Experience. **Ten hours.** II.

Students will serve for ten weeks in a recreation agency under the supervision of a qualified supervisor.

Recreation 464. Advanced Leadership Techniques. **Two hours.** II.

This course is designed to review the leadership techniques to be used during field experiences. Students will be asked to demonstrate their leadership abilities with groups and individuals.

Recreation 466. The Recreation Program. **Three hours.** II.

A comprehensive course in recreation programs as used by various recreation agencies will be taught. Students will be required to plan a program for one year to be used in a particular recreation setting.

SCIENCE

Science 310. History of Science. **Three hours.** A.

The development of scientific concepts through the ages; contribution of science to civilization; relations of scientific developments and various philosophies; biographical sketches. Three lecture hours.

Science 410. The Teaching of Physical Science in the High School. **Three hours.** I, II.

Prerequisite: A major or minor in the physical sciences.

A review of fundamentals of chemistry and physics, with emphasis on applications to high school teaching of chemistry, physics, and physical science. Emphasis will be placed upon techniques that are useful in teaching principles of science in the classroom and in the laboratory. Attention will be given to new concepts in science teaching, especially as they relate to new curriculum developments in secondary science education.

Science 475. (Formerly Science 351.) Science for Elementary Teachers. **Three hours.** I, II.

Prerequisite: General Studies 161, 162, 170, 176, or equivalent.

Concepts of science, experiments and demonstrations useful to the teaching of science from Kindergarten through grade 6. Five discussion-laboratory hours.

SOCIOLOGY

Robert H. Sanders, Chairman

Recommended curriculum for a major in Sociology without right of teaching certificate. The first two years of this curriculum may be found in the Central University College section.

Third Year

First Semester	Hours	Second Semester	Hours
Music 271	3	Art 200	3
Sociology 320	3	Sociology 332	3
Sociology 365	3	Sociology 335	3
Sociology elective	3	Sociology elective	3
Elective	3	Electives	6
	15		18

Fourth Year

Sociology 545	3	Sociology 590 or 595	3
Sociology 570	3	Sociology elective	3
Electives	10	Electives	9
	16		15

Recommended curriculum for a major in Sociology with right of teaching certificate. A student who majors in Sociology with right of teaching certificate must have a second major or minor in a field which will enable him to be placed in a teaching position in a secondary school. The second major or minor must be approved by the Chairman of the Department of Anthropology and Sociology and the Associate Dean for Teacher Education

Third Year

First Semester	Hours	Second Semester	Hours
Education 315	2	Education 316	2
Sociology 320	3	Sociology 332	3
Sociology 365	3	Sociology 335	3
Electives	6	Sociology Elective	3
		Electives	6
	14		17

Fourth Year

Sociology 545	3	Education 364	4
Sociology 570	3	Education 463	10
Sociology Elective	3	Social Science 466	3
Electives	6		
	15		17

SOCIOLOGY

Recommended curriculum for a major in Sociology without right of teaching certificate.

A student may major in Sociology by completing the following courses in Sociology: 110, 231, 320, 332, 335, 365, 545, 570, 590 or 595, and 9 hours electives in Sociology.

Recommended curriculum for a second major in Sociology.

A student with a major in another department may take a second major in Sociology by completing the same courses in Sociology as required for a first major.

Recommended curriculum for a minor in Sociology.

A student may minor in Sociology by completing the following courses in Sociology: 110, 231, 320, 335, 400 level elective, and 545.

SOCIOLOGY

Sociology 110. Societies Around the World. **Three hours.** I, II.

Ethnography of selected cultures around the world; the formal and informal ways, technology, and ideology. Primitive and modern. (Same as Anthropology 110.)

Sociology 231. Introductory Sociology. **Three hours.** I, II.

A general survey of the field of sociology. The basic concepts and principles of sociology including its relationship to allied fields. The basic elements of social structure, collective behavior, institutions, social change, and social deviation.

Sociology 320. Self in Society. **Three hours.** I, II.

Prerequisite: Psychology 211 or consent of instructor.

A review of social psychology, its theory and methods. Particular attention is given to the socialization process, and to the relationship of social factors to personality formation and control.

Sociology 332. Urban Sociology. **Three hours.** I.

Prerequisite: Sociology 231 or consent of the instructor.

Origin and development of the city; urbanism as a way of life; organization, functions, and problems of urban communities; urban renewal and planning.

Sociology 335. Social Problems. **Three hours.** II.

An analysis of deviant behavior, juvenile delinquency, adult criminality, and corrective systems and their relationship to the total society.

Sociology 345. Sociology of the Family. **Three houris.** II.

Prerequisite: Sociology 231 or consent of the instructor.

The structure and function of the family with emphasis on contemporary patterns. The developmental stages of family in our society. The relationships between the family and other institutions, and family problems.

Sociology 360. The Community. **Three hours.** I.

Prerequisite: Sociology 231 or consent of instructor.

The origins of community are examined, but emphasis is placed on the modern community. The structure, function, and boundaries of contemporary communities are discussed, along with the problems of community maintenance and rebuilding. Community action is presented.

Sociology 365. Population. **Three hours.** II.

Prerequisite: Sociology 231.

Factors in the study of human populations. Population factors in relationship to social structure. Population problems in contemporary societies.

Sociology 370. The Field of Social Work. **Three hours.** I.

Prerequisite: Nine hours of Sociology.

Functions, method, and philosophy of contemporary social work will be considered in relation to the various divisions of the field.

Sociology 375. Criminology. **Three hours.** I.
Prerequisite: Sociology 231.
The theories of criminal behavior. Statistics of criminology. The administration of justice and rehabilitation. Preventative measures.

Sociology 380. Social Stratification. **Three hours.** II.
Prerequisite: Sociology 231.
A study of the structure and function of the social class system. The literature is reviewed, and factors related to status are presented and discussed.

Sociology 400. Racial and Cultural Minorities. **Three hours.** II.
Prerequisite: Anthropology 230 or Sociology 231, or consent of instructor.
A comprehensive analysis of minorities and intergroup relations from the standpoint of contemporary sociology, anthropolgy, and social psychology: nature and types of racial and cultural groups; causes and consequences of prejudice and discrimination; scientific facts and democratic values in planning and resolving intergroup tensions.

Sociology 410. Political Sociology. **Three hours.** I.
Prerequisite: Consent of the instructor.
An advanced course dealing with the development of political sociology, its methods, models, and theories.

Sociology 415. Methods in Social Work. **Three hours.** II.
Prerequisite: Sociology 370.
The methods used in the various fields of social work and the relationships of social work to community organization and public welfare.

Sociology 425. Sociology of Religion. **Three hours.** II.
Prerequisite: Sociology 231 or consent of instructor.
The sociological approach to religion. The function of religion in society. Types of societies and religions. The organization of religions in United States society.

Sociology 450. Social Change. **Three hours.** I.
Prerequisite: Nine hours in sociology or consent of instructor.
An analysis of the theories in regard to social dynamics. The factors related to social stability and social change. The function of change. The problems of change and the absence of change.

Sociology 545. (Formerly Sociology 445) Sociological Theory. **Three hours.** I.
Prerequisite: Nine hours in Sociology or consent of the instructor.
A systematic analysis of the major theories in sociology, with emphasis on their meaning for research

Sociology 570. (Formerly Sociology 470) Research Methods in Sociology. **Three hours.** A.
Prerequisite: Nine hours in Sociology or consent of the instructor.
A study of various research methods employed in collecting, processing, and interpreting data in the social sciences. Some emphasis on statistical methods. Completed studies are review critically.

Sociology 590. (Formerly Sociology 490) Tutorial in Anthropology and Sociology. **Three hours.** A.
Prerequisite: Twelve hours in Sociology and consent of instructor.
Individual reading and research on a problem or area within the field of sociology chosen by the student after consultation with the instructor. The student's work will culminate in a research paper or essay. (Same as Anthropology 590)

Sociology 595. (Formerly Sociology 495) Seminar in Anthropology and Sociology. **Three hours.** A.
Prerequisite: Eighteen hours in Anthropology and Sociology or consent of instructor.
A topic of major importance in the fields of Anthropology and Sociology will be selected for intensive investigation. Topic will change from semester to semester. (Same as Anthropology 595)

College of Business

EASTERN KENTUCKY UNIVERSITY
UNITED WE STAND ★ DIVIDED WE FALL
FOUNDED 1906
RICHMOND

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COLLEGE OF BUSINESS

Joseph H. Young, Dean

The College of Business offers four-year programs leading to the degree of Bachelor of Business Administration. The College will offer graduate work leading to the degree of Master of Business Administration beginning in the fall semster of 1967-68. The Graduate School administers the graduate degree. The Department of Business Education offers a one-year secretarial certificate program and a two-year executive secretarial program leading to the Associate of Arts degree. The Business Department offers a two-year program in data processing leading to the Associate of Arts degree.

The programs in the College of Business are designed to provide professional education for careers in business and to develop an intellectual understanding of his role as citizen in a rapidly changing technological society. Through the liberal arts requirements for the degree, the College attempts to provide for the student a well-rounded education.

The College offers courses in accounting, business education, business law, economics, data processing, finance, management, and marketing. The specific programs are outlined in the departmental sections of the catalogue. Each student upon transferring in to the College of Business is assigned a faculty advisor especially trained in the requirements of the program he intends to pursue. Students changing programs should consult with the Dean for reassignment to an appropriate faculty advisor.

Students in the College of Business are eligible for financial aid and grants, as are all other students in the institution, and should contact the Financial Aids Office to inquire about them.

Pre-legal Study.

Many students planning to attend law school find undergraduate programs in business particularly good background for their legal study. Special advisors are available in the College of Business for pre-legal students. Requirements for the combined degree program are outlined on page 58.

Admission to the College of Business.

Freshmen enter the Central University College and remain there through their sophomore year. As they approach the completion of their sophomore year, they should apply for admission to the College of Business. The following are the requirements for admission:

1. Completion of a minimum of 64 credit hours with a grade point average of 2.0 or higher.

2. Completion of the following:
   General Studies 101 and 102
   English 209 or 211 and 210 or 212
   General Studies 180 and 181
   General Studies 142 and 248
   General Studies 246 and 247
   Economics 230 and 231
   Accounting 124, 125 and 126
   General Studies 281
   Art 200
   Science or Math, 9 hours (See page 50 for options)
   Military Science (for men), 8 hours

Requirements for Graduation.

In order to be graduated with a degree, students must apply to the Office of the Dean of Admission. The application for graduation should be made at the beginning of the next to the last semester in residence before graduation. Last day upon which applications may be accepted by the Registrar is 30 days before the beginning of the last semester in residence before graduation. This application is forwarded to the Dean of the college who will check the student's record and notify him of any deficiency. The requirements for the degree are as follows:

1. A minimum of 128 hours and a quality point average of 2.0. Candidates for degrees must earn 30 of the last 36 hours in residence at Eastern Kentucky University. Hours earned by correspondence study are accepted upon written approval of the Dean. However, not more than 25 per cent of the total hours offered for the degree may be in correspondence and/or extension work. A degree may not be awarded if less than 32 hours have been earned in residence at Eastern Kentucky University. Of the 128 hours for the degree, 43 must be earned in upper division courses (courses at the 300, 400, and 500 level).
2. At least 40 per cent and preferably 50 per cent of the hours toward the degree must be earned in the Central University College and the College of Arts and Sciences.
3. Completion of the business core.
4. Completion of sufficient course work in a major.
5. Elective hours are subject to the following restrictions: Not more than eight hours in applied music or six hours in industrial education and no hours in participation courses in Physical Education (except 115 and 116, which are required) count toward the degree.

Major Requirements.

Each student in the College of Business must choose a major field. Students should make this choice at the time they are admitted to the College of Business and the student must be approved by the department offering the major. The student's schedule for each semester must be approved by his faculty advisor. Any student not making satisfactory progress in his major may be required to change his major or to transfer from the College of Business. A grade of "C" or higher is required in each course for credit toward the major. In addition, a 2.0 quality point average must be maintained in all work taken in the department offering the major. A student may not take more than 64 hours in the College of Business without permission of the Dean. For majors which are available and their requirements, see the various departments in sections of this bulletin devoted to course offerings. No minor or second major is recognized in the College of Business since students take the business core.

Required Subjects.

1. General Studies 101 and 102
   General Studies 246 and 247
   General Studies 180, 181, and 281
   English 209 and 210 or 211 and 212
   Humanities other than English, 6 hours
   Social Science, 6 hours
   Science or Math, 12 hours
   Military Science (for men), 8 hours

Accounting majors are required to include Math 107 as a portion of the science and mathematics requirement.

2. The Business Core:
   Accounting 124, 125, and 126
   Business 240, 308, 344, and 405
   Business Education 301
   Economics 230, 231, 324, and 391

Teacher Certification.

The Department of Business Education, in cooperation with the College of Education, provides programs leading to certificates qualifying graduates to teach business subjects in the high school. Students on these programs must have a quality point average of 2.25 on their entire record and also in their required area, or major to be eligible for graduation and certification. Students following these programs may have portions of the business core requirements waived. Students interested in business teacher certification should consult the Chairman of the Business Education Department.

Award.

Each spring the outstanding graduating senior in the College of Business is selected to receive the Anna D. Gill Award. This prize consists of the income from a fund estàblished in the honor of Miss Gill, a former member of the business faculty.

ACCOUNTING

Claude Smith, Chairman

The Accounting Department provides courses in principles of accounting required of all students obtaining a degree in Business. In addition, it has two programs for majors in accounting. The professional accounting program is designed to prepare graduates to enter an accounting firm in anticipation of work toward the CPA certificate. The industrial accounting major is designed for students who wish careers in government or industry using their accounting but without intention to seek the CPA designation.

The professional accounting program requires 18 hours of accounting above 126 and must include 441. The industrial accounting major requires 15 hours of accounting above 126 and must include Accounting 226. It is recommended that the industrial accounting major carefully select his course in consultation with the faculty advisor to improve his career effectiveness. Courses submitted toward the major must be completed with a grade of "C" or higher.

When the Master of Business Administration degree program is introduced in the fall semester of 1967, an accounting concentration will be one of the options.

Award.

Each spring the outstanding junior on the professional accounting program is awarded the Yeager, Ford, & Warren Accounting Award. This award consists of a certificate of accomplishment and $100 provided by the Louisville firm of Certified Public Accountants, Yeager, Ford, & Warren.

Accounting 124. Principles of Accounting. **Three hours.** I, II.

Fundamental accounting relationships; ledger and trial balances; journals and posting to accounts; completion of the accounting cycles; sales and cash receipts; purchases and cash payments; and the periodic summary.

Accounting 125. Principles of Accounting. **Three hours.** I, II.

Prerequisite: Accounting 124 or satisfactory completion of departmental examination.

Notes and interest; deferrals and accruals; receivables and merchandise inventory; plant assets-depreciation; systems and controls; payroll taxes and sales taxes; concepts and principles; and partnerships.

Accounting 126. Principles of Accounting. **Three hours.** I, II.

Prerequisite: Accounting 125.

Corporations-naure and formation, capital stock, capital, earnings, dividends, and long-term obligations and investments; departments and branches; income taxes, and their effects on business decisions; special analysis and internal reports; funds statements; consolidated statements; and other statements; and statement analysis.

Accounting 225. Principles of Accounting—Intermediate. **Three hours.** I, II.

Prerequisite: Accounting 126.

Accounting statements; the recording process; the periodic summary; cash and temporary investments; receivables; inventories; current liabilities; investments in stocks, bonds, funds and miscellaneous items.

Accounting 226. Principles of Accounting—Intermediate. **Three hour.** I, II.

Prerequisite: Accounting 225.

The acquisition, use, and retirement of plant and equipment; depreciation, depletion, and revaluations of plant and equipment; intangible assets and deferred charges; long-term liabilities; capital stock; surplus; statements from incomplete data; errors and their correction; statement analysis; statement of application of funds.

Accounting 227. Cost Accounting. **Three hours.** I, II.

Prerequisite: Accounting 126.

The field of cost accounting; cost flow, cost elements, cost classification and cost system; the cost accounting cycle; the voucher system and the factory ledger; elements of cost; applied factory overhead; actual factory overhead; departmentalized manufacturing expenses; process cost accounting; the costing of by-product and joint products. A job order cost set of books is worked by the students.

Accounting 228. Specialized and Advanced Cost Accounting. **Three hours.** I, II.

Prerequisite: Accounting 227.

Estimated cost systems; budgetary control with standard costs; cost control through cost reports; analysis and control of distribution costs; gross profit analysis; break-even analysis; profit-volume analysis; and direct costing.

Accounting 320. Principles of Accounting—Advanced. **Three hours.** I, II.

Prerequisite: Accounting 226.

Partnerships—formation and operation; special partnership problems; joint ventures; statement of affairs; receivership; statement of realization; estates and trusts; and acturial science.

Accounting 321. Principles of Accounting—Advanced. **Three hours.** I, II.

Prerequisite: Accounting 320.

Installment sales; consignments; home office and branch relationships; corporate combinations; consolidated balance sheet; special problems with consolidated balance sheets; consolidated income and retained earnings statement; foreign branches and subsidiaries.

Accounting 322. Income Tax Accounting. **Three hours.** I, II.

Prerequisite: Accounting 126.

Income tax legislation—Federal and State; returns for individuals; gross income; basis and determination of gain or loss; capital gains and losses; dividends; deductions; withholding. Stuents will have experience filling out income tax return forms.

Accounting 323. Advanced Tax Accounting. **Three hours.** I, II.

Prerequisite: Accounting 322.

Federal income tax report preparation with emphasis on partnership and corporate returns; estates and trusts; gift and estate taxes; special problems in preparation of federal tax returns.

Accounting 421. Government Accounting. **Three hours.** I.

Prerequisite: Accounting 126.

Accounting procedures used by federal, state and local government agencies; general and special funds; budget preparation and administration; report preparation; inter-fund adjustments; analysis of statements.

Accounting 441. Auditing. **Three hours.** I, II.

Prerequisite: Accounting 226.

Professional ethics; accountant's legal responsibility; internal control; preliminary arrangements for an audit; general procedure of an audit; the original records; the asset accounts; the liability accounts; operating accounts; the audit report. An auditing problem is worked to illustrate the principles discussed in class.

Accounting 525. (Formerly Accounting 425) Accounting problems. **Three hours. A.**

Prerequisite: Accounting 226.

This is an advanced course in accounting and the contents will be determined by the needs of the students registering for it.

BUSINESS

The Business Department provides courses in finance, management, marketing, busines law, and data processing. The department provides four majors and a minor and the two-year, data-processing program for students.

The general business major consists of 18 hours above the business core. The 18 hours consists of six credit hours in each of the fields of management, finance, and marketing above courses required in the business core. All courses submitted toward the major must be completed with a grade of "C" or higher. There is a minor in business for students in colleges other than the College of Business. This minor consists of Accounting 124, 125, Economics 230, 231, and six elective hours in business. This minor is provided primarily for students of the College of Applied Arts and Technology. Students in the College of Arts and Sciences require special permission from the Dean of the College of Arts and Sciences before such a minor is approved.

The finance major consists of 18 hours above the business core. Economics 492 may be counted toward the finance major. All courses submitted toward the major must be completed with a grade of "C" or higher.

A management major consists of 18 hours above the business core and must include Management 504. In addition to the management courses listed in this section, Economics 333, 497, 593 and Business Education 501 may be counted toward the management major. All courses submitted for completion of the major must be completed with a grade of "C" or higher.

The marketing major consists of 18 hours above the business core and must include either Marketing 443 or 445. Economics 394 and Business 310 may be counted toward the marketing major . All courses submitted for the major must be completed with a grade of "C" or higher.

The department provides a two-year program in data processing leading to the Associate of Arts degree. The courses required in the program and the recommended sequence for scheduling purposes is shown on the facing page. All Business courses in data processing submitted toward this program must be completed with a grade of "C" or higher. A "C" average must be maintained on all work submitted for the Associate of Arts degree awarded at the conclusion of this program.

TWO-YEAR DATA PROCESSING PROGRAM

Associate of Arts Degree

First Year

First Semester	Hours
Accounting 124, Principles of Accounting	3
Business 101, Introduction to Business	3
Business 161, Unit Data Processing I	3
Business 171, Electronic Data Processing—Basic Concepts	3
General Studies 101, English Composition I	3
Military Science 101, Introduction to Military Science	2
	17

Second Semester	
Accounting 125, Principles of Accounting	3
Business 162, Unit Data Processing II	4
Business 172, Electronic Data Processing—Machine Language	3
Business Education 151 or 152, Typewriting	2
General Studies 102, English Composition II	3
Military Science 102, Basic Military Training	2
	17

Second Year

First Semester	
Accounting 126, Principles of Accounting	3
Business 261, Flow Charting	3
Business 271, Electronic Data Processing—Symbolic Programming	4
Business 281, Data Representation	3
Economics 230, Principles of Economics I	3
Military Science 201, Second Year Basic Military Training	2
	18

Second Semester	
Business 262, Systems Analysis	3
Business 272, Electronic Data Processing—Special Techniques	4
Business 274, Information Theory	3
Business 282, Logic Concepts	3
Accounting 227, Cost Accounting	3
Military Science 202, Second Year Basic Military Training	2
	18

BUSINESS

Business 101. Introduction to Business. **Three hours.** I, II.

Functional areas of business administration; forms of business organization, factors in the location of an enterprise; risk bearing; and control systems used in business. For the student who has no background in business.

Business 239. Mathematics of Finance. **Three hours.** I.

Prerequisite: Mathematics 107.

Bank discount; true discount and present value; exact interest; logarithms; equation of accounts; domestic and foreign exchange; series annuities; cumulative sinking funds; cumulative amortization plans; building and loan association calculations; industrial loans.

Business 405. Business Law. **Three hours.** I, II.

Prerequisite: Junior standing.

Law in general; kind of law persons; torts; contracts; personal property; real property; forms of business organization.

Business 406. Business Law. **Three hours.** I, II.

Prerequisite: Business 405.

Bailments; sales of personal property; market practices; negotiable contract, suretyship and guaranty; privilege of debtors; labor relations.

DATA PROCESSING

Business 161. Unit Data Processing I. **Three hours.** I.

Methods of data representation; preparation of data in-put; and functions and controls of key-punch, interpreter, sorter, collator, and reproducer.

Business 162. Unit Data Processing II. **Four hours.** II.

Prerequisite: Business 161.

Controls of accounting machine and summary punch; preparation of reports; and adaptation of record keeping systems to punch card equipment.

Business 171. Electronic Data Processing-Basic Concepts. **Three hours.** I.

Organization and functions of an electronic computer; types of command structure; forms of data representation; arithmetic processing; decision function; and looping principles.

Business 172. Electronic Data Processing—Machine Language. **Three hours.** II.

Prerequisite: Business 171.

Programming an actual computer using the command structure of the machine; coding techniques.

Business 261. Flow Charting. **Three hours.** I.

Prerequisites: Business 162 and 172.

Problems in flow charting various business routines.

Business 262. Systems Analysis. **Three hours.** II.

Prerequisite: Business 261.

Study of existing business systems to determine elements that influence re-design of the system for use with electronic computer.

Business 271. Electronic Data Processing—Symbolic Programming. **Four hours.** I.

Prerequisite: Business 172.

Fortran, algol, and cobol programming.

Business 272. Electronic Data Processing—Special Techniques. **Four hours.** II.

Prerequisite: Business 271.

Handling random access data; overlap; and in-put and out-put problems.

Business 274. Information Theory. **Three hours.** II.

Prerequisite: Business 271.

Economy in communication, noise, redundancy, and transmission problems.

Business 281. Data Representation. **Three hours.** I.

Prerequisite: Business 274.

Number systems; validity checking, error recognition; serial and parallel arithmetic processing; operation in multiple modes.

Business 282. Logic Concepts. **Three hours.** II.

Prerequisite: Business 281.

Logic patterns used in electronic computers.

Business 361. Unit Data Processing. **Three hours.** I, II.

Prerequisites: Junior standing and permission of the instructor.

Application of punched-card systems to business record keeping; forms of representing data; functions of the various equipment items; preparation of reports; design of systems.

Business 362. Electronic Data Processing. **Three hours.** I, II.

Prerequisite: Business 361.

Programming electronic computers; input-output media; systems analysis and design.

FINANCE

Business 308. Corporation Finance. **Three hours.** I, II.

Prerequisites: Economics 231 and 324.

The subject matter of this course covers the following matters pertaining to the private, profit-seeking corporate enterprise:: (1) the acquisition of funds of property with which to operate; (2) sources of more permanent types of capital supply—namely, stocks and bonds; (3) sources of temporary capital needs and the essential practices of short-term credit institution; (4) the management of the corporate net income; (5) alteration of the financial structure of the corporation on a voluntary or involuntary basis for the purpose of improving its financial standing.

Business 310. Principles of Risk and Insurance. **Three hours.** II.

Prerequisite: Junior Standing.

This course is designed to assist the student to acquire a sufficient understanding of the principles and coverages of insurance to enable him intelligently to plan a satisfactory program of insurance for his personal needs or his business responsibilities. The following subjects are considered: The nature of risk and methods of risk assumption; fire insurance; transportation insurance; casualty insurance; life insurance; and fidelity and surety bonds.

Business 430. Public Finance and Taxation. **Three hours.** I.

Prerequisite: Economics 324.

Distribution of government burdens; the general property tax; modified property tax; shifting and incidence of taxation; the income tax; death and gift taxes; taxes upon business; consumption taxes; motor vehicle taxes; and poll tax; social security taxes; taxes on natural resources; non-tax revenue.

Business 440. Investments. **Three hours.** II.

Prerequisite: Economics 324.

Characteristics of bonds; characteristics of stocks; securities market; investment banking; sources of investment information; interpreting financial news; taxation of securities; investors of limited means; analysis of securities.

MANAGEMENT

Business 240. Principles of Management. **Three hours.** I, II.

Prerequisite: Accounting 126.

The general principles of management: planning; organization; control; location; equipment; and maintenance of factory buildings; plant layout and machine arrangement, job analysis, motion and time study, production control; and budgets.

Business 312. Cases in Business Management. **Three hours.** I, II.

Prerequisite: Business 240.

Personnel management; business organization; policy and planning; wage payment; financial records and statements; purchases and sales; production control; and related problems.

Business 326. Motion Study and Work Simplification. **Three hours. II.**
Prerequisite: Business 240.

Scientific methods of analyzing motions involved in work in industrial production and office tasks; types of equipment used in studying work systems; recording methods; analytical charts and graphical methods needed in work study; principles of re-design of work methods for improved efficiency.

Business 351. Personnel Management. **Three hours.** I.
Prerequisite:: Business 240.

Principles of scientific personnel management in factory, store, and office; job analysis, description, and classification; personnel selection, maintenance, and training; promotion; labor turnover, working hours and wage policies; health and safety of employees.

Business 352. Organization and Operation of the Small Business. **Three hours.** I, II.
Prerequisite: Business 240.

The opportunities for the organization and operation of the small business; organization, location, financial planning; records; unit costs; merchandising; credits; personnel; opportunities in various fields considered.

Business 504. Management Control. **Three hours.** II.
Prerequisite: Senior or graduate standing.

The application of control system to business organizations; uses of accounting controls, payroll controls, personnel controls, and other control devices useful at the executive level in business.

MARKETING

Business 341. Salesmanship. **Three hours.** I, II.
Prerequisite: Junior standing.

The art of selling; the motive behind all buying; the customer's mental journey; attitudes of buyer and salesman; preparation of the selling talk; the pre-approach; the interview; arousing interest; creating desire; answering objections: meeting excuses; diplomacy of the close; types of customers.

Business 343. Advertising. **Three hours.** I, II.
Prerequisite: Junior standing.

The specific purpose of advertising; developing the copy; slogans; trademarks; layouts; engraving; scheduling of advertisements in newspapers and magazines; direct mail advertising; outdoor advertising; dealer display advertising; economics aspects of advertising; federal laws affecting advertising.

Business 344. Marketing. **Three hours.** I, II.
Prerequisites: Economics 231 and junior standing.

Consumers' buying; marketing functions and institutions; selling direct to consumers; earlier and simpler types of retail institutions; department stores; mail-order houses; chain stores; agricultural wholesaler; raw materials; cooperative marketing; speculation; price and some price policies; brands and brand policies; ethical aspects of marketing.

Business 347. Retailing. **Three hours.** I.
Prerequisite: Business 344.

Location and arrangement of stores; organizational principles; personnel procedures; time procedures; merchandizing principles; and sales promotion.

Business 348. Wholesaling. **Three hours.** II.
Prerequisite: Business 344.

Principles and practices involving the distribution of goods from manufacturing to the retailers; comparison of alternative methods; purchasing, transportation, and warehousing of goods; sales promotion of goods to the retailer.

Business 349. Advertising Copy and Layout. **Three hours.** II.
Prerequisite: Business 343.

Study of principles involved in and practice of the writing of advertising copy for varied media; art principles used in design of both the graphic and written portion of advertising materials.

Business 442. Sales Promotion. **Three hours. I.**
Prerequisite: Business 344.
Managerial control of sales development through the coordination of advertising and sales force operations with particular reference to direct mail advertising, sampling, premiums, sales and consumer contests, consumer education and dealer relations.

Business 543. (Formerly Business 443) Market Research. **Three hours. I.**
Prerequisite: Business 344.
The use of secondary research resources; building of bibliographies; preparation of reports from executives and clients.

Business 545. (Formerly Business 445) Marketing Management. **Three hours. II.**
Prerequisite: Six hours of marketing.
Coordinates marketing techniques and policies in the major marketing fields. In addition, it is specifically concerned with determining policies and procedures in merchandising; selecting distributon channels; defining, locating, and reaching the market; determining marketing budgets; integrating advertising; personal selling and sales promotion; using and evaluating market research.

BUSINESS EDUCATION

Alfred Patrick, Chairman

The purposes of the Business Education Department at the undergraduate level are to prepare:

1. Qualified teachers of business education to be certified to teach in secondary schools.
2. Qualified secretaries in one-year, two-year, or four-year programs.

The Business Education Department also offers a graduate program, which is administered by the Graduate School. Students may earn the Master of Arts degree in Secondary Education with a specialization in Business Education.

Business Teacher Education Program.

The Business Education Department, in cooperation with the College of Education, provides programs leading to certificates qualifying graduates to teach business education at the secondary level. Teaching certificates may be in one of three forms. The Department offers an Area in Business Education (which requires a minimum of 52 hours in Business) for students who plan to teach business subjects exclusively; graduates with an Area in Business Education are certified to teach in all subject matter areas of Business Education at the secondary level. Majors in Business Education (which requires a minimum of 31 to 34 hours in Business) are offered for those students who wish to combine teaching Business Education with other subjects. Majors may be completed with emphasis in any one of three fields: Accounting, secretarial practice, or general business.

Students who desire to qualify as teachers for vocational business education programs follow the same area or major programs outlined above; however, they should notify their faculty advisor during their sophomore year that this type of certification is desired.

In order to be admitted to the teacher education program, a student must have a 2.25 grade-point average on his entire record and also in his teaching field or fields.

Area in Business Teacher Education.

Third Year

Business Education 253	2	English 210 or 212	3
English 209 or 211	3	Business Education 203	3
Art 390	3	Business Education 301	3
Business Education 202	3	Education 316	2
Education 315	2	Humanities elective, upper division	3
Science or mathematics	3	Science or mathematics	3
	16		17

Fourth Year

Business Education 461	1	Business 405	3
Business Education 462	3	Economics 324	3
Education 364	4	Business elective, upper division	6
Education 463	10		
	18		12

Majors in Business Teacher Education.

With emphasis in Accounting:
The following courses are required:
Economics 230
Accounting 124, 125, 126, and nine additional hours in accounting
Business Education 151, 152, 253, 462
Business 405

With emphasis in Secretarial Parctice:
The following courses are required:
Economics 230
Accounting 124, 125, 126
Business Education 115, 116, 151, 152, 202, 253, 254, 301, 461, 462

With emphasis in General Business:
The following courses are required:
Economics 230, 231, 324
Accounting 124, 125, 126
Business Education 151, 152, 253, 462
Business 405
Three hours elective in Business

All work toward an area or major in Business Education must be completed with a grade of "C" or higher.

The Business Education Department sponsors Pi Omega Pi, a national honorary fraternity for outstanding students who are interested in teaching in the field of business. The aims of Pi Omega Pi are:

1. To create, encourage, and promote scholarship in Business Education.
2. To aid in civic betterment in colleges and universities.
3. To encourage and foster high ethical standards in business and professional life.

Pi Omega Pi makes an annual award to its outstanding member. The Business Education Department also presents annually the National Business Education Association Professional Award to the outstanding senior in business teacher education.

Secretarial Programs.

As part of its undergraduate program, the Buiness Education Department also offers a four-year program for the preparation of secretaries. To complete the four-year secretarial program, the following courses are required: the business core (36 hours) and Business Education 115, 116, 151, 152, 202, 203, 253, and 254.

The requirements for the two-year and one-year secretarial programs are shown below:

CERTIFICATE SECRETARIAL SCIENCE

(A one-year program for women students)

First Semester	**Hours**
Accounting 124, Principles of Accounting	3
Business Education 116, Intermediate Shorthand	3
Business Education 152, Intermediate Typewriting	2
Business Education 254, Office Machines	3
General Studies 101, English Composition I	3
General Studies 180, Fundamental Physical Education Activities	1
	15

Second Semester	
Accounting 125, Principles of Accounting	3
Business Education 202, Dictation and Transcription	3
Business Education 203, Secretarial Practice	3
Business Education 253, Advanced Typewriting	2
General Studies 102, English Composition II	3
General Studies 181, Fundamental Physical Education Activities	1
Health 202, Safety and First Aid	2
	17

This program must be completed with a "C" average or better. It is assumed that students have had some typewriting and shorthand in high school so that they may start in the second semester of each. If students have not had previous typewriting or shorthand, summer study of five hours will be necessary. In such cases the students will substitute Business Education 151, Beginning Typewriting, two hours or Business Education 115, Beginning Shorthand, three hours, in place of the shorthand or typewriting courses shown above for the first semester.

EXECUTIVE SECRETARIAL PROGRAM

(A two-year program for women students)

Associate of Arts Degree

First Year

First Semester	**Hours**
Business 101, Introduction to Business	3
Business Education 115, Beginning Shorthand	3
Business Eudcation 151, Beginning Typewriting	2
General Studies 101, English Composition I	3
General Studies 180, Fundamental Physical Education Activities	1
General Studies 140, Contemporary Social Problems	3
	15

Second Semester	
Business Education 116, Intermediate Shorthand	3
Business Education 152, Intermediate Typewriting	2
Business Eudcation 254, Office Machines	3
General Studies 102, English Composition II	3
General Studies 181, Fundamental Physical Education Activities	1
Accounting 124, Principles of Accounting	3
	15

Second Year

First Semester	
Accounting 125, Principles of Accounting	3
Business Education 202, Dictation and Transcription	3
Business Education 253, Advanced Typewriting	2
Economics 230, Principles of Economics I	3
General Studies 246, History of Western Civilization	3
General Studies 248, The Human Problem in the 20th Century	3
	17

Second Semester

Accounting 126, Principles of Accounting	3
Business Education 203, Secretarial Practice	3
Business Education 301, Business Communications	3
Economics 231, Principles of Economics II	3
General Studies 247, History of Western Civilization	3
Health 202, Safety and First Aid or General Studies 281, Personal and Community Health	2 or 3
	17 or 18

This program must be completed with a "C" average or better.

BUSINESS EDUCATION

Business Education 115. Beginning Shorthand. **Three hours.** I, II.
Prerequisite: Business Education 151 or its equivalent.
Principles of Gregg shorthand; dictation and transcription.

Business Education 116. Intermediate Shorthand. **Three hours.** I, II.
Prerequisites: Business Education 115 and 152, or their equivalents.
A continuation of Business Education 115 with increased emphasis on dictation and transcription, including the production of mailable, business correspondence.

***Business Education 151.** Beginning Typewriting. **Two hours.** I, II.
Techniques in keyboard control; skill building practices; knowledge and care of the machine; personal and business letters; use of carbon paper; tabulating; term papers and notebooks.

*Any student who has received at least one full unit of high school credit in typewriting will not be permitted to take Business Education 151 for credit.

Business Education 152. Intermediate Typewriting. **Two hours.** I, II.
Prerequisite: Business Education 151 or its equivalent.
Continued emphasis on speed and accuracy building; increased emphasis on business papers, manuscripts, reports, tabulation, mimeographing.

Business Education 202. Dictation and Transcription. **Three hours.** I, II.
Prerequisite: Business Education 116 and 152.
Continuation of shorthand vocabulary development; improvement of ability to take dictation and transcribe mailable copy; emphasis on development of skill necessary to meet occupational standards.

Business Education 203. Secretarial Practice. **Three hours.** I, II.
Prerequisite: Business Education 116..
The course is designed to train professional secretaries and to develop skills for secretarial competency and efficiency. The student is given experience in a variety of specialized secretarial duties.

Business Education 253. Advanced Typewriting. **Two hours.** I, II.
Prerequisite: Business Education 152, or its equivalent.
Increased emphasis upon advanced typewriting problems. Production typewriting is stressed.

Business Education 254. (Formerly called Office Appliances and Procedures) Office Machines. **Three hours. I, II.**
Principles and practices of use of various figuring and calculating machines.

Business Education 301. Business Communications. **Three hours.** I, II.
Prerequisite: Junior standing.
Principles and practices of modern written business communication; various types of business letters and reports are studied; emphasis is on writing letters and reports.

Business Education 461. (Formerly 461a) Materials and Methods in Teaching Shorthand. **One hour.** I, II.

Prerequisite: Business Education 116.

Methods, techniques, and devices for teaching shorthand.

Business Education 462. (Formerly 461b) Materials and Methods in Teaching Bookkeeping, General Business, and Typewriting. **Three hours.** I, II.

Prerequisites: Business Education 253, Accounting 126 or its equivalent, and two courses in Business.

Methods, materials, and techniques used in the teaching of bookkeeping, typewriting, and the general business subjects.

Business Education 501. Office Management. **Three hours.** II.

Prerequisites: Junior standing; graduate enrollment on the basis of permission of instructor.

Function and organization of the office; office layout and equipment; office personnel—selection, training, supervision, and compensation; work simplification and control; automation in the office; planning, organizing, and controlling office services; systems and job analysis.

GRADUATE DIVISION COURSES

Business Educatiin 661. (Formerly 561) Improvement of Instruction in Bookkeeping and General Business. **Two hours.** I.

Business Education 662. (Formerly 562) Improvement of Instruction in the Skill Subjects. **Two hours.** II.

Business Education 663. (Formerly 563) Principles of Business Education. **Two hours.** I.

Objectives, principles, curricula, trends, and major problems of business education on the secondary level. For students preparing to teach business subjects.

Business Education 664. (Formerly 564) Seminar in Business Education. **Two hours.** II.

Prerequisite: Business Education 663.

Reading and discussion relating to the major current problems in business education.

Business Education 665. (Formerly 565) Administration of a Business Education Department. **Two hours.** I.

Prerequisite: Business Education 663.

Problems in layout, equipment, curriculum planning, supervision, and testing in business education departments.

ECONOMICS

Donald Shadoan, Chairman

The curriculum in Economics is designed to increase the student's understanding of economic principles and to prepare the student for employment in the field of busines with privately owned firms and governmental agencies. Also, the program is designed to give the student an adequate background for graduate study.

A major in economics may be taken by both the student working toward a degree in the College of Business and by the student pursuing a degree in the College of Arts and Sciences. A minor in Economics is available only for the student pursuing a degree other than in the College of Business.

A student enrolled in the College of Business, majoring in Economics, will take the business core courses and 18 additional hours in Economics which must include the following courses: Economics 592, 593 or 450, and 497. A student enrolled in the College of Arts and Sciences, majoring in Economics, is required to take 30 hours in Economics which must include the following courses: Economics 230, 231, 324, 592, 593 or 450, and 497. A student pursuing work toward a minor in Economics is required to take 18 hours in Economics including the following required courses: Economics 230, 231, 324, 592, 593 or 450.

College of Business students must make a grade of "C" or higher in all courses counting toward the major in Economics.

ECONOMICS

Economics 110. (Formerly Economics 410) American Economic History. **Three hours.** A.

This is a general course in American Economic History, which stresses a historical description of trends and events from the European background of Colonial America to the present time. Special emphasis is placed upon modern interpretation regarding economic growth and upon governmental action in the field of economics.

This course will not count toward a major in business or economics.

Economics 111. European Economic History. **Three hours.** A.

A general survey of the economic conditions and activities of Europe from the Middle Ages to the present. Among the topics which will be treated are: the rise and breakdown of feudalism, the industrial revolution, the development of agriculture, industry, finance, and transportation.

This course will not count toward a major in business or economics.

Economics 230. Principles of Economics I. **Three hours.** I, II.

A course in micro economics: A survey and study of the basic economic principles and their application to the firm operating in a modern economy. A study of the concepts of demand, supply, priring, and resource allocation under various competitive conditions, marginal analysis, government and business, and income distribution.

Economics 231. Principles of Economics II. **Three hours.** I, II.

Prerequisite: Economics 230.

A macro economics course: A survey and study of the economic principles as they apply to the American economy. A study of national income, production, employment, the money and banking system, the modern theory of national income, economic growth, inflation and deflation, and the problems of economic stabilization.

Economics 260. Consumer Economics. **Three hours.** I, II.

The role of consumers in economic life; consumers; choice; who guides consumers; freedom of choice; custom-made wants; choosing goods for display; fashion-made wants, imitative wants; producer-made wants; the profitable practice of fraud; price appeal; making it easy to buy; consumer education; planning expenditures; intelligent buying; cooperative buying; buying protection; buying shelter; buying investments; producer aids to consumers; standards of consumers; governmental aids to consumers.

May not be included in a business or economics area, major, or minor without approval of the department chairman.

Economics 324. (Formerly Business 324) Money and Banking. **Three hours.** I, II.

Prerequisite: Economics 231.

Nature and functions of money; kinds of money; monetary systems; history of banking; functions of the bank; bank administration; the national banking system; deposits and depositors; the clearing house; domestic and foreign exchange; loans and discounts; bank supervision; savings banks; trust companies; foreign banking system; the federal reserve system; central banking policies and practices; monetary and fiscal policies both nationally and internationally.

Economics 333. Economics of Labor. **Three hours.** II.

Prerequisite: Economics 231.

The labor force; trade-union growth; structure and government of the local unit; structure and government of the national unit; structure and government of the federations; trade-union collective bargaining; management; dealing with organized labor; dealing with unorganized labor; government policy toward collective bargaining; government policy toward the individual worker; the operation of the labor market; wages; seasonal aspects of employment; cyclical aspects of employment; technological aspects of employment; a full employment economy; the distribution of income.

Economics 391. (Formerly Business 391) Statistical Methods. **Three hours.** I, II.

Prerequisite: Junior standing.

The course will consider such as the following: frequency distributions; measures of location; measures of variation; probability; theoretical distributions; sampling distributions; problems of estimation; tests of hypotheses; problems of sampling; linear regression; correlation; index numbers; time series analysis.

Economics 394. International Economics. **Three hours.** I.

Prerequisite: Economics 324.

An introduction to the field of international trade, payments, and commercial policy. Topics included are: theory of international trade, balance of international payments, foreign exchange, tariffs and other trade barriers, and current international economic problems and policies of the United States. The course concludes with a brief study of such international organizations and agreements as the International Monetary Fund, International Bank for Reconstruction and Development, other international financial institutions, and General Agreements of Tariffs and Trade.

Economics 432. Alternative Economic Systems. **Three hours.** I, II.

Prerequisite: Economics 231.

A somewhat detailed treatment of such topics as the following: capitalism; utopian forerunners; the Marxian theory of socialism and communism; modern socialism and communism; British socialism; the economy of the Soviet Union; Fascism as existed in Italy and German; the Consumers' Cooperative Movement.

Economics 450. (Formerly Economics 350) National Income. **Three hours.** I.

Prerequisite: Economics 231.

A treatment of basic concepts and composition of our national income account, involving a detailed analysis of the strong and weak points of our type of social accounting.

Economics 497. Private Enterprise and Public Policy. **Three hours.** I.

Prerequisite: Economics 231.

A detailed analysis of public policy as it is related to various types of business operations and combinations, including conspiracy, monopoly, mergers, unfair practices, and discrimination. Economic and legal appraisal of policy alternatives.

Economics 510. History of Economic Thought. **Three hours.** I.

Prerequisite: Economics 231.

In this course a survey of economic thought and doctrine from the ancient period to the end of the classical period will be made.

Economics 511. Economic Thought Since the Austrian School. **Three hours.** II.

Prerequisite: **Economics 510.**

This is a continuation of Economics 510. The chief economical doctrine since the Austrian school will be studied.

Economics 592. (Formerly Economics 492) Business Cycles. **Three hours.** II.

Prerequisite: Economics 231.

This course will deal with such as the following: economic decision-making; growth, instability, inflation, and change; long-run growth; short-run fluctuations; personal spending and saving decisions; saving and spending in the business sector; government expenditure and tax patterns; the total flow of spending; prices, output, and employment; the cyclical pattern; problems and procedures in forecasting; dynamic policies for business; dynamic policies for individuals.

Economics 593. (Formerly Economics 493) Intermediate Economic Theory and Analysis. **Three hours.** I, II.

Prerequisite: Economics 231.

A development of the leading theories and analyses of value and distribution. Problems and policies of price determination of both the firm and the industry and factor pricing are considered at the intermediate level of analysis.

Economics 595. (Formerly Economics 495) The Economic of Growth & Development. **Three hours.** II.

Prerequisites: Economics 450 or 592.

The measurement of underdevelopment; the international distribution of income; the causes of economic growth; public policy for the promotion of economic growth; theories and development.

GRADUATE DIVISION COURSES

Economics 600. (Formerly Economics 500) Problems in Consumer Economics. **Three hours.** A.

Prerequisite: Economics 231.

An advanced treatment of some of the problems in the area of consumer economics. The place of consumption of economic theory; the institutional background of consumer habits; sources of information on consumption; government regulation of consumer standards; intelligent consumer choices; savings as part of the family spending; investments, estate planning and wills; consumer credit; consumer in taxes.

Economics 601. (Formerly Economics 501) Contemporary Economic Problems. **Three hours.** A.

Prerequisite: Economics 231.

This course involves a consideration of such goals of society as economic growth, economic stability, economic security, economic freedom, etc. The problem-approach method will be utilized. Students will be expected to demonstrate their understanding of and ability to use the tools of economic analysis in connection with the problems studied.

College of Education

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FOUNDED 1906
RICHMOND

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COLLEGE OF EDUCATION

Dixon A. Barr, Dean
J. D. Coates, Associate Dean

(Recommended Curriculum for a Major in Elementary Education with right of Provisional Elementary Teaching Certificate)

Third Year

First Semester	Hours	Second Semester	Hours
Art 360	3	Art 361	3
Education 315	2	Education 316	2
English 350 or 351	3	Library Science 301	3
History 202	3	Music 360	3
Math 202	3	Physical Education 322	2
Music 271	3	Elective	3
	17		16

Fourth Year

Education 354	3	Education 367	6
Education 360	3	Education 463	10
Science 351	3		
Elective	6		
	15		16

* Selected from among Art 200, Drama 100, or Foreign Language. If a foreign language is elected, six hours must be taken in the same foreign language to meet the Humanities requirement.

** Required science includes any four of the following five courses: Geology 108, General Studies 161, 162, 170, 176.

ELEMENTARY EDUCATION CURRICULUM

ART		6
360 Public School Art	3	
361 Art Education in the Elementary School	3	
EDUCATION		29
*202 Professional Orientation	3	
315-316 Human Development and Psychology	4	
354 Reading in the Elementary School	3	
360 Teaching of Elementary School Mathematics	3	
367 Fundamentals of Elementary Education	6	
**463 Supervised Student Teaching	10	
ENGLISH		15
101-102 (General Studies) English Composition	6	
211 Survey of Literature I	3	
212 Survey of Literature II	3	
350 or 351 American Literature I or II	3	
HEALTH AND PHYSICAL EDUCATION		7
180 (General Studies) Fundamental Physical Education Activities	1	
181 (General Studies) Fundamental Physical Education Activities	1	
201 Personal and Community Health	3	
322 Physical Education in the Elementary School	2	

* Transfer students will enroll in Education 300 in lieu of Education 202.

** In-service teachers having three years of teaching experience may enroll in Education 463b for eight semester hours of credit in the summer session only.

HUMANITIES ELECTIVE		3
Art 200, Art Appreciation: Orientation; Drama 100, Introduction to the Theatre; or six hours of the same Foreign Language		
LIBRARY SCIENCE		3
301 Children's Literature and Related Materials	3	
MATHEMATICS		6
201 Understanding Arithmetic	3	
202 Understanding Elementary Mathematics	3	
MILITARY SCIENCE (MEN) ELECTIVE (WOMEN)		8
101 Introduction to Military Science	2	
102 Basic Military Training		2
201 Second Year Basic Military Training	2	
202 Second Year Basic Military Training	2	
Elective (Women)	8	
MUSIC		6
360 Public School Music		3
Elective: Music 271, 371, or 372		3
PSYCHOLOGY		3
211 General Psychology	3	
SCIENCE		15
Any four of the following five courses: Geology 108, General Studies 161, 170, 176	12	
351 Science for Elementary Teachers	3	
SOCIAL SCIENCE		18
142 (General Studies) Past in Perspective	3	
144 (General Studies) Contemporary Social Problems or 248 (General Studies) the Human Problem in the 20th Century	3	
240-247 (General Studies) History of Western Civilization	6	
Geography 101 or 102	3	
202 American History to 1877	3	
*ELECTIVES		9-17
Total		128

* With prior approval of advisor

EDUCATION

Eddie P. Ort, Chairman

Education 202. Professional Orientation. **Three hours. I, II.**

An introduction to the field of education and teaching. The aim of the course will be not only to acquaint the student with the role of public education, but also to help him analyze his own personal fitness for teaching, to become acquainted with the nature of the teaching profession, and to help him choose intelligently a teaching field. At this time the student initiates the application to the Teacher Education Program. Certain tests and other prescribed instruments are completed which become a part of his professional folder.

Education 300. Issues and Trends in American Education. **Three hours.** I, II.

This course is designed for, required of, and limited to junior level transfer students who have not taken Education 202. Focus is on such current issues and trends in American education as: quality versus mediocrity; religious instruction in public schools; school prayer; teaching of controversial issues; special education for exceptional children; homogeneous grouping; and federal aid to education. A variety of experiences will be provided to assess the student's potential for a career in teaching. At this time the transfer student initiates the application to the Teacher Education Program. Certain tests and other prescribed instruments are completed which become a part of his professional folder.

Education 315. (Formerly Education 215.) Human Development and Psychology. **Two hours.** I, II.

Prerequisites: 60 semester hours including Psychology 211, Education 202, Social Science, and Biological or Physical Science. Admission to teacher education.

This course is designed to utilize a synthesis of the concepts and principles of human growth and development in a scientific process of understanding the causes of human behavior. An attempt is made to understand the relative and complex influences on child behavior which result from the physiological, affectional, and cultural areas of forces. It includes two hours per week devoted to selected readings, films, lectures, and discussions; and one hour per week for each student to observe the behavior of a selected child and to write an anecdotal record of the observation.

Group interpretation of the anecdotal record provides experiences for inferring the causes of individual behavior from the large body of general principles which govern human behavior.

Education 316. (Formerly Education 216.) Human Development and Psychology. **Two hours.** I, II.

Prerequisite: Education 315. Admission to teacher education.

This course is a continuation of Education 315. The experience of observing and keeping an anecdotal record of a child's behavior is continued with increased complexity of structure and interpretation. Seminars are directed more toward the psychological forces which interact with each other and with the physical and cultural forces to shape human behavior; self-developmental processes and self-adjustment processes. Attempts are made to relate classroom procedures to such topics as the nature of learning, forces affecting learning, motivation, perception, intelligence, child centered approach to learning, and evaluation of pupil progress.

Education 354. (Formerly Education 164, 22, and 254) Reading in the Elementary School. **Three hours. I, II.**

Prerequisite: Education 315. Admission to teacher education.

Objectives of reading in the elementary school; reading in the primary and intermediate grades; the place of oral reading in the grades; individual differences in reading; word difficulties; phonics; measuring reading instruction; motivation; materials of instruction.

Education 358. Language Arts in the Elementary School. **Three hours.** I, II.

The role of the language arts in the elementary school curriculum. Topics focused upon will be speaking, listening, reading, spelling, and writing as they pertain the elementary school child and curriculum.

Education 360. Teaching of Elementary School Mathematics. **Three hours.** I, II.

Prerequisites: Education 315, Mathematics 201, and Mathematics 202. Admission to teacher education.

Developing an understanding of the elementary school mathematics program with emphasis on the foundation program of number experiences; methods and materials for teaching the fundamental processes of arithmetic, common and decimal fractions, weights and measures; and the evaluation of mathematical learning.

Education 370. (Formerly Education 37.) Resource-Use Education. **Three hours.** A.

This course is designed to help teachers understand the dynamic role of education in developing resources—natural, human, and cultural—and to aid them in making better use of resources in teaching. Topics: Meaning and objectives of resource-use education; analysis of state, regional, and national resources; selecting and organizing resource materials for effective teaching purposes; use of field trips, visual aids, readings, and other activities; sources of materials from state, regional, and national agencies; types of aids available to teachers; state regional, and national planning for the conservation and wise use of resources; some principles of resource-use education.

Education 384. (Formerly Education 47 and 383.) Organization and Administration of the School System. **Two hours.** I, II.

Prerequisite: Junior standing.

This course deals with the total school system and is designed to give the student a clear picture of the public school system as a whole. Among the topics treated are the study of and participation in experiences leading to an understanding of the principles and practices in the organization and administration of the total school system; study of the functions of education in a democracy; the scope and functions of school organization and control; problems of prospective teachers; important responsibilities and activities related to instruction; membership in the teaching profession, and other problems connected with the public school system in general.

Education 421. (Formerly Education 421a and 421b.) Educational Measurement. **Three hours.** A.

Survey of the development of mental and educational tests; the nature and classification of standard tests; the construction of tests; the importance of accuracy in measurement, reliability, validity; extent to which standardized measures should replace traditional types of measurement; methods of improving the ordinary examination; the criteria for the selection of standardized tests; statistical analysis of the test data, use of the results for comparison, classification, promotion, guidance, prognosis, diagnosis; and measuring the efficiency of the teacher and of schools.

Education 441. The Elementary School Curriculum. **Three hours.** I, II.

This course will involve examining the objectives of elementary education in the light of the needs of our changing society. A study will be made of the function of the elementary school, the content of its curriculum, and evaluation and revision of the program.

Education 501. (Formerly Education 301.) The Junior High School. **Two hours.** A.

Origin, development, and present status of the junior high school movement; the place of the junior high school in the public school system; the aims, purposes, and objectives of the junior high school; evaluation of types of programs; the junior high school plant; library, apparatus, and equipment of the junior high school.

Education 507. Problems in Education. **One to three hours.** A.

Prerequisite: Approval of advisor and the Chairman of the Department of Education.

Designed for students who wish to do independent work on a problem in education, or who wish to enroll in a special workshop or seminar focusing on a particular topic.

Education 508. (Formerly Education 302 and 303.) Administration of Pupil Personnel Services. **Three hours.** A.

This course is designed for the preparation of pupil personnel workers, and covers a study of various approaches to understanding of the pupil with an educational setting as the basis of study. It also includes the relationship of attendance to pupil progress; social and economic factors affecting attendance; school census and personnel records. Study will be made of personnel work in typical schools in Kentucky. Some attention is given to social case work as it relates to the social and economic problems of the community.

Education 515. (Formerly Education 415.) The Role of the Teacher in Guidance. **Three hours. A.**

This course is designed to aid the prospective teacher in examining the concepts, principles, and foundations of guidance as these apply to the role of the teacher. Particular emphasis will be given to those guidance functions which can be performed by teachers. The interrelationships of counselor, teacher, and administrator as these are related to guidance will be stressed.

Education 516. (Formerly Education 416.) Child Development Laboratory I. **Three hours. A.**

This course involves the direct study of children. Each participant selects a child for study, writes a description of the child, and gathers significant data about the child from all available sources of information. In regular periodic meetings with other participants, the materials are presented for criticism and analysis. Emphasis is placed upon skill in observation, objectivity in recording, and realism in analysis of causes of behavior. The course, for in-service teachers, run for the entire school year, and each participant must complete his analysis in a structured summary.

Education 517. (Formerly Education 417.) Child Development Laboratory II. **Three hours. A.**

This course is a continuation of Education 516, but with added emphasis on procedures for analysis of the dynamics of behavior. A structured framework of six broad areas of factors and processes in child development is employed. The records must be summarized in terms of developmental tasks within these area.

Education 518. (Formerly Education 418.) Child Development Laboratory III. **Three hours. A.**

This course is a continuation of Education 517.

Education 519. (Formerly Education 419.) Teaching in the Kindergarten. **Three hours. A.**

This course is designed primarily for students who are especially interested in the theory and practice of teaching the kindergarten.

Topics: The kindergarten movement; nature, development, and education of the child of kindergarten age; organization, equipment, curriculum, and procedures used with children of this age; kindergarten education, its leaders; and its literature. Some opportunity will be provided for observing and participating in the kindergaten.

Education 520. (Fomerly Educaton 420.) Creative Experiences in Early Childhood Education. **One to three hours. A.**

Designed for prospective and in-service nursery school, kindergarten, and day-care center teachers to explore ways of fostering creativity in children under six. Focus will be on the nature of creativity, development of skills used in creative expression (e.g., listening and observing), and activities which promote creativeness in the pre-school child. Laboratory experiences with a variety of art media, recent films, and appropriate field trips will be included. Special attention will be given to the organization of the daily program for creative learning.

Education 545. (Formerly Education 445.) Introduction to the Education of Exceptional Children. **Three hours. I.**

Introduction to programs, problems, and procedures of working with children who are exceptional—mentally, physically or emotionally. Focuses on children who have problems of vision, hearing, and speech, as well as those with physical and neurological defects. Some attention is given to recent research dealing with the exceptional child and special education programs.

Education 569. (Formerly Education 369.) Audio-Visual Methods. **Three hours. I.**

A survey of various types of audio-visual aids; with instruction in the utilization of pictures, maps, graphs, slides, records, recorders, projectors, and other audio-visual materials. (Also Library Science 569.)

Education 574. (Formerly Education 474.) Teaching Reading in the Secondary School. **Three hours.** I, II.

Prerequisite: Education 316 and 316; admission to teacher education.

This course is designed to assist the secondary teacher in teaching reading in the content areas. Includes emphasis on developmental reading, reading skills, appraisal of reading abilities, appropirate materials and organization of reading progress at the secondary school level.

Education 576. Techniques and Materials for Remedial Reading. **Three hours.** I, II.

Prerequisite: Education 354 or its equivalent.

This course includes a study of methods, materials, and techniques (group and individual) appropriate for correcting of reading problems of children and adults. Includes emphasis on organization of the reading program.

Education 577. Practicum in Remedial Reading. **Three hours.** I, II.

Prerequisite: Education 576.

This practicum is designed to provide supervised experiences in diagnosis and the correction of reading problems. Direct experiences in working with children and/or adults are provided.

GRADUATE DIVISION COURSES

Education 600. (Formerly Education 500.) Introduction to Educational Administration. **Three hours.** I, II.

This course is designed as the first course to be taken by those who plan to complete all or a part of the leadership curricula. It deals with theories of administration and the practice of these theories at the system level and community level; it deals with the functions of those who work with learners, with teachers, with plant, with curriculum and with other aspects of a functioning education program at the local state or national level. The studies of administrative functions of school personnel will be examined in this course. Research in the administrational field by CPEA will make up a large part of the materials for the course.

Education 601. (Formerly Education 501, School Administration I.) School Personnel Administration. **Two hours.** A.

Federal relations to education; the state as a fundamental school unit; general school law and court decisions relating to public education; powers and duties of state school officials; work of the state department of education; local units of school control; power and duties of local school officials; administration of adult education and other types of special education; the administration of teacher personnel; public-school relations; closer school-community relationships; principles of good school-community relationships; education and the community; non-government controls of education; school insurance administratin; the non-public or protest school; community administrative structure; principles of operation.

Education 602. (Formerly Education 502, School Administration II.) School Buildings and Grounds. **Two hours.** A.

Administration of pupil accounting; the school census; attendance; records and reports; organization and administration of the supervisory program; curriculum administration; selection of school sites; building plans and designs; school building management; operation and maintenance of the school plant; selection and use of equipment and supplies; organization of school libraries; auxillary agencies; administration of health education; school consolidation and transportation; office guidance; appraisal; interpretation; advanced education; major steps in building a school.

Education 603. (Formerly Education 503, School Administration III.) School Finance. **Two hours.** A.

The background of school finance; the school finance situation; the control of public education; tests of wholesomeness of fiscal policy; economic effects of school finance; cost and character of education; a conceptual basis for local financial administration; budgeting school funds; auditing school accounts, school revenue-sources and management; financial accounting; cost analysis; financial statements and reports; salaries of school employees; school supply management; procedures; qualities of good teaching; procedures of evaluating and improving classroom teaching; methods of making the school a more effective agency; management of school property; financing capital outlay; the American state and central support of public education; the foundation program; designing programs for marshaling effective support for an adequate foundation program-equalization; designing programs for marshaling effective support for vigorous local autonomy progress and compromise; designing fiscal programs to establish the desired balance of controls between central and local agencies; measures of the educational need for use in state programs; measures of relative ability for use in evaluating fiscal policy and in designing state programs; state educational endowment; the state and taxation; federal financing of education.

Education 605. (Formerly Education 505.) Kentucky School Law. **Two hours.** A.

This course will be primarily concerned with developing knowledge and understanding of: The principles of school law, constitutional provisions relating to public schools in Kentucky, school districts, school buildings and other school property, school officers, the State Department of Education, school support, conduct of schools, compulsory attendance, school faculties and other employees, retirement, tenure, vocational education, rehabilitation education, higher education, and court interpretation of the laws.

Education 610. (Formerly Education 510.) Improvement of Instruction in the Elementary School. **Three hours.** I, II.

Meaning and function of elementary education; underlying principles developed for curriculum use and curriculum revision; interpretation of the learning experiences (school subjects in light of the meaning and function of education); study of concrete materials and classroom procedure with a representative range of practical problems in various subject areas; types of organization used in modern instruction; how children learn; various educational agencies in the community; how the school may be made a real community center; laboratory study and field trips.

Education 611. (Formerly Education 511.) General Supervision. **Three hours.** I.

Objectives and problems of school supervision; techniques and functions of supervision; current practices in supervision, problems of organizing instruction to meet increasing responsibilities of public schools; analyzing teachers' difficulties; planning supervisory programs; selecting and organizing instructional materials; locating and using community resources and other aids available to public school teachers; techniques for developing desirable professional relations; problems of in-service education for teachers. Each member of the group will plan a supervisory program for a local school system in Kentucky as a special project in the course.

Education 612. (Formerly Education 512.) Curriculum Development. **Two hours.** II.

This course is designed for graduate students who desire to make a critical study of the principles and techniques of curriculum making in public schools. Recent curriculum developments are evaluated and effective curriculum programs are considered. Some attention is given to the recent progressional literature on curriculum development and trends.

Education 613. (Formerly Education 513.) Principles of Guidance. **Two hours.** I.

This course includes selection, evaluation, and usage of group guidance methods; emphasis will be placed upon appropriate methods and materials for specific situations in group guidance programs. This course will also deal with educational and occupational information. It will include a survey of pertinent educational and occupational material with emphasis being placed upon intensive and extensive use of these as they apply to secondary school students.

Educational 614. (Formerly Education 514.) Organization and Administration of Guidance Services. **Two hours.** I.

Prerequisite: Education 613.

This course will focus on the selection of materials and organization of programs for school guidance. Types of organizational patterns methods of initiating a program, and evaluative techniques will be considered. The relationship of guidance personnel to other staff members and to the community will be examined. The course will assist the counselor to develop or initiate a more suitable and workable guidance and counseling program in his school.

Education 615. (Formerly Education 515.) Human Development. **Three hours.** I, II.

Developmental factors and individual differences; motives, goals, and purposes; arranging the learning situation; problem solving and creative expressions; acquiring skill and information; transfer; the curriculum; social setting for learning evaluation of development and learning.

Education 616. (Formerly Education 516.) Measurement and Guidance. **Three hours.** I.

An intensive study of measurement and other techniques for guidance and counseling in schools, including counseling and guidance principles and techniques. Some attention is given to statistical methods. Recent developments in guidance and counseling are evaluated and effective programs are given special consideration. Fee, $2.00.

Education 618. (Formerly Education 518.) Practicum in Counseling. **Two hours.** II.

This course is designed to build proficiency in counseling and interviewing. Includes brief review of modern counseling and interviewing techniques and their purpose in guidance; major emphasis is given to compilation and study of case histories of records, and actual interviewing and counseling with pupils, teachers, parents, supervisors and administrators.

Education 619. (Formerly Education 519.) Clinical Study of Exceptional Children. **Two hours.** A.

Methods are studied for diagnosing and teaching brilliant, retarded, physically handicapped, and emotionally maladjusted children.

Education 620. (Formerly Education 520.) Group Processes in Guidance. **Two hours.** II

Prerequisite: Education 613, or experience as a guidance counselor.

Theories, issues, and trends in the use of group methods in guidance will be the main topics in this course. It is designed to assist counselors to better understand and apply sound principles of group processes as part of the ongoing guidance program. Included will be emphasis on the choice of appropriate experience for effective guidance and counseling. Some exxperience with actual groups will be included.

Education 622. (Formerly Education 522.) Occupational and Educational Information. **Two hours.** II.

Prerequisite: Education 613 and 614, or experience as a guidance counselor.

A survey of the development and use of occupational and educational information in counseling and guidance. The course will assist the student to examine the significance of various types of prepared materials which may be appropriate for school guidance. An analysis of methods for evaluating these materials and of integrating them into the counseling process will be presented.

Education 625. (Formerly Education 525.) Guidance in the Elementary School. **Three hours.** A.

A survey of the current trends, issues, and concepts of elementary guidance and counseling. Current programs of elementary guidance will be analyzed and implications for integration in the students' situation will be examined. Opportunity for observation of elementary students will be provided so that the developmental pattern of these youth may be integrated more accurately into the didactic material. The relationship of the elementary counselor to other staff members will be considered.

Education 628. (Formerly Education 528.) Instructional Television. **Three hours.** A.

Exploration of television as a teaching tool. Theory and practice of planning the utilization of instructional television programs and courses. Emphasis on the cooperative role of the producer-director. The part of the television-studio teacher and the television-classroom teacher will be explored. History of educational television, television research, and the literature in the field will be included. Supervised critical viewing of tlecourse segments will be an integral part of the course.

Education 631. (Formerly Education 531.) History of Education. **Two hours.** A.

Brief survey of the history of education in ancient and medieval times with social reference to the contribution of Greece, Rome, and Christianity to modern education; educational influences of the Renaissance and the Protestant Reformation; the role of the doctrine of formal discipline; educational influence of Cemenius, Rousseau, Pestalozzi, Froebel, and Hervart.

Education 632. (Formerly Education 532.) History of Education in the United States. **Two hours.** A.

Rise and development of public education in the United States with special emphasis upon the work of Horace Mann; sociological, psychological, and scientific movements in education; desirable education reorganizations; the influence of John Dewey; brief study of the development of public education in Kentucky.

Education 636. (Formerly Education 536.) Philosophy of Education. **Two hours.** I, II.

Meaning and scope of philosophy and education; contrasting philosophies and conceptions of education; the nature and meaning of education in relation to the individual and the social order; education and democracy; social progress and social control, the nature of thinking; educational aims and values; subject matter and methodology in relation to the educative process; character education; evaluation and interpretation of present-day issues and problems in education.

Education 637. (Formerly Education 537.) Comparative Education. **Two hours.** A.

Examination, comparison, and discussion of the background of conditions and theories which have resulted in the present practices in education in the world today

Education 638 (Formerly Education 538.) Modern Trends in Educational Philosophy. **Two hours.** A.

Prerequisite: Education 636 or its equivalent.

A study of alternative philosophies and their implications for current educational theory and practice.

Education 642. (Formerly Education 542.) Applied Statistical Methods. **Two hours.** A.

Prerequisite: Education 368.

Measurements in psychology and education; frequency distributions; measures of central tendency; measures of variability; applications of the normal distribution curve; reliability and significance of statistics; testing hypothesis; prediction and errors of prediction; correlation methods; reliability and validity of tests.

Education 650. (Formerly Education 550.) Educational Sociology. **Three hours.** I, II.

Relation of sociology to education; sociological problems and their educational implications; social groups and institutions in relation to education; social forces and their significance in society; the sociological determination of educational objectives; social elements and values in the curriculum; democracy in school administration and supervision; essential elements of a socialized educational program.

Education 662. (Formerly Education 562.) The Role of the Principal. **Three hours.** I, II.

Nature of demands made on school principals; organization of duties for effective management; planning the year's work; responsibilities for schedule-making; guidance functions of the principal; projecting a guidance organization; office duties of the principal; duties pertaining to records and reports; organizing the program of student activities; administering the program of student activities; duties pertaining to the need of youth; adjusting school to pupil needs; evaluating the progress of pupils; the administration of teacher personnel; duties pertaining to supervision; educational diagnosis and remedial treatment; the improvement of curriculum materials; the use of tests in instruction; the school library; business duties of principals; administering the school plant; the principal in the community; and the future of the school principalship.

Education 663. (Formerly Education 563.) Improvement of Instruction in the Secondary School. **Three hours.** II.

Aims of the public secondary schools; plans for evaluating curriculum procedures; qualities of good teaching; procedures of evaluating and improving classroom teaching; methods of making the school a more effective agency.

Education 664. Investigations in Language Arts. **Two hour.** A.

This course is designed for graduate students who desire to make a critical study of the investigative and theoretical literature dealing with the teaching of language arts (listening, spelling, handwriting, oral and written expression) in the elementary school. Research in the teaching of reading is not included.

Education 665. (Formerly Education 565.) Investigations in Reading. **Two hours.** II.

This course is designed for graduate students who desire to make a critical study of the investigative and theoretical literatures dealing with the teaching of reading in the elementary school.

Education 666. (Formerly Education 566.) Investigations in Elementary School Mathematics. **Two hours.** A.

This course is designed for gradlate students who desire to make a critical study of the investigative and theoretical literatures dealing with the teaching of mathematics in the elementary school.

Education 667. (Formerly Education 567.) Investigations in the Teaching of Social Studies. **Two hours.** A.

This course is designed for graduate students who desire to make a critical study of the investigative and theoretical literatures dealing with the teaching of social studies.

Education 669. (Formerly Education 569.) Research in Education. **Two hours. I, II.**

Functions of educational research; types of research and the principal techniques of each type; bibliography; discovering educational problems for study; organization and interpretation of data; preparing and evaluating research reports; class discussions and reading reports.

Required of all graduate students who do not prepare a thesis.

Education 670. (Formerly Education 570.) Seminar. **One to three hours.** A.

The Seminar is designed for students who are preparing a thesis in partial fulfillment of the requirements for the degree of Master of Arts in Education. If the thesis requirement is waived, Education 669, Research in Education, is required.

Education 673. Developmental Reading in the Elementary School. **Three hours.** A.

Advanced study of methods, materials, and organizational procedures appropriate for the teaching of developmental reading in the elementary school. Emphasis is placed on the evaluation of linguistics, Initial Teaching Alphabet, programmed learning, and other new approaches.

Education 674. Improvement of Language Arts Instruction in the Elementary School. **Three hours.** A.

This course focuses on examination of current instructional trends and curriculum problems relating to the teaching of language arts in the elementary school. Major emphasis is on listening, spelling, handwriting, and oral and written expression. Attention is not given to the teaching of reading.

Education 675. (Formerly Education 575.) Diagnosis of Reading Problems. **Three hours.** I.

Prerequisite: Education 354 or its equivalent.

This course focuses on the theory and interpretation of diagnostic procedures necessary for the appraisal of reading problems. Includes the study of factors causing reading difficulties and various kinds of individual and group procedures, such as different kinds of tests.

Education 680. (Formerly Education 580.) Organization and Supervision of Student Teaching. **Three hours.** I.

Prerequisite: Teaching experience.

A course designed for teachers preparing to become supervising teachers in the elementary and secondary schools. Emphasis will be placed upon supervision of student teachers, supervision of instruction, and improvement of instruction. The course gives emphasis to the responsibility of the supervising teacher to administrators, to student teachers, and to the boys and girls. Intensive study will be made in the areas of teaching, classroom management, planning instruction, conferences, ethics, and evaluation of the student teaching program.

Education 681. (Formerly Education 581.) Leadership for Helping in Studying Children. **Two hours.** A.

Prerequisite: For those persons who plan to serve as leaders in an inservice education program designed to increase teachers' understanding of pupils.

The course is open to people who have the master's degree.

By using mimeographed records, the participants gain skill in relating factors and processes revealed in the records to the behavior of a child. Attention is given to methods of observation, writing an anecdotal record, selection of significant data, home visitation, and interpretation. Special emphasis is placed on plans for leading teachers in a systematic study designed to understand the behavior of pupils.

Education 682. (Formerly Education 582.) Inter-Institutional Seminar in Child Development. **Three hours.** A.

For graduate students who are interested in current research in child development. The daily all-day program generally held for two weeks in the summer includes lectures, films, large and smal group discussions, and committee assignments. Emphasis is paced upon the study of current research findings in child development. Participants are encouraged to do research and writing which can be published in the Seminar's annual publication. Outstanding guest speakers, a well stocked library, recreational facilities, and staff members from several leading institutions are provided. Registration by permission from Chairman of the Department of Education.

Education 683. (Formerly Education 583.) Analysis of Recent Research in Human Development. **Three hours.**

Prerequisite: Education 615.

Designed for graduate students who are interested in current efforts to learn more about the behavior of children, and to find ways of utilizing this knowledge in the educative process. Experiences consist of individual and group research into current and recent exploration and study of factors and processes which affect the development and learning of children. Evaluation of this research is through critical group discussion in seminar-like atmosphere.

Education 685. (Formerly Education 585.) Seminar for Supervising Teachers. Three hours.

Prerequisite: Education 680, and experience as a supervising teacher.

This seminar is a follow-up of Education 680. It is designed for in-service supervising teachers to explore in depth problems and procedures relating to their work in supervision of student teaching. Critical study will be made of individual and group problems, with emphasis on improving supervisory skills.

Education 690. College Teaching. Three hours. A.

This course is designed for students who are or who expect to teach in junior or senior colleges. Focus will be on consideration of the roles and responsibilities of the college teacher in the changing scene in higher education, with critical exploration of decisions to be made. Attention will be given to becoming acquainted with individuals and class groups, planning college courses, practical problems of selecting and guiding learning experiences, holding effective conferences, using varied instructional media, and evaluating student growth.

Eastern Kentucky University participates in a cooperative program with Merrill-Palmer Institute of Human Development and Family Life, Detroit, Michigan, for selected second semester junior students in Elementary Education.

This program, which includes students from all parts of the world, focuses on the multi-disciplinary approach to the study of human development and behavior. Theoretical study is given added depth through laboratory experiences and practicum teaching.

Students selected for this program reside at Merrill-Palmer Institute for one semester. A tuition fee and room and board charge are paid to the Institute. Credits earned at the Institute may be transferred to a degree program at Eastern with prior approval of the student's advisor and the Registrar.

Elementary Education students who are interested in this cooperative program should contact the Chairman of the Department of Education.

READING CLINIC

The Reading Clinic of the Department of Education offers special services to children, college students, and other adults who wish to improve their reading abilities. Non-credit speed reading and study skills courses are offered each semester for a nominal fee. Included in this course are such emphases as skimming, scanning, vocabulary improvement and study skills necessary for college. Students who need more individual help may request diagnostic services prior to enrollment in reading improvement classes; a nominal fee is charged for complete reading diagnosis.

Additional information concerning registration for classes or requests for services may be obtained by contacting the Director, Reading Clinic, Bert Combs Building, Room 406, Eastern Kentucky University.

LABORATORY SCHOOL

Walter Marcum, Director

The Laboratory School is an integral part of the total teacher education program at Eastern. Two of its major purposes are (1) to provide a quality program of instruction for its own students and (2) to serve as a center for professional laboratory experiences for prospective and in-service teachers. Closed-circuit television connects the Laboratory School with the Bert Combs Building where classes in professional education are taught.

The Laboratory School enrolls approximately 650 students with a staff of thirty-five full-time faculty members. It is located in the Donovan Building which was first occupied in 1961. The finest and most recent innovations of school architecture have been incorporated in this splendid building.

Pupils who attend the Laboratory School come from the city and county in the surrounding community. The number of pupils for each grade is limited. Listed below are the tuition fees:

Nursery school and kindergarten	$72.00 per semester
Grades 1-12	$20.00 per semester

PROFESSIONAL LABORATORY EXPERIENCES

J. Dorland Coates, Chairman

Education 364. Fundamentals of Secondary Education. **Four or six hours.** I, II.

Prerequisite: One semester of residence at Eastern; admission to teacher education; completion of Education 202, 315, 316; over-all academic standing of 2.25, as well as in major and/or minor fields; approval of department chairman. Taken same semester as Education 463.

Graduated approach to responsible room teaching through experiences in study and discussion, organizing materials, directed observation, laboratory work, and gradual participation; development of the American secondary school; experiences in the study of pupil behavior; selection and organization of curriculum experiences; variation in techniques of teaching in different types of learning; learning objectives, interests, methods, and materials in special fields; experiences involving management and co-curricular duties; experiences in human relationship.

Education 367. Fundamentals of Elementary Education. **Six hours.** I, II.

Prerequisite: One semester of residence at Eastern; admission to teacher eudcation; completion of Education 202, 315, 354, 360; Science 351; over-all academic standing of 2.25, as well as in major field; approval of department chairman. Taken same semester as Education 463.

This course is designed for elementary education majors as part of their professional semester. It offers a functional and graduated approach to responsible teaching in the elementary school through study and discussion, directed observation and laboratory experiences involving the preparation of teaching materials. It develops further understandings of the various elementary curriculum areas, educational theories and principles, and methods and techniques; an awareness of professional ethics and responsibilities; and a consciousness of the implications of child growth and development for the teacher.

Education 463. Supervised Student Teaching. **Eight or ten hours. I, II.**

Prerequisite: For elementary education majors the prerequisite is the same as for Education 367; the prerequisite for secondary education majors is the same as for Education 364. This course is taken the same semester as either Education 364 or 367.

Observation and participation, and responsible room teaching; child study with special case study problems and remedial work; development of skills and techniques desirable for good school procedure; the location, collection, and organization of materials for instruction, study of community occupations, resources, social and economic problems; experience in meeting parents, visiting homes, participation in social programs of school and community; experience in directing various kinds of activities including routine school duties, field trips, and extra-curricular programs; acquaintance with the school organization, school policies, system of records and the like; learning how to maintain desirable pupil-teacher relationship.

Education 463b. Laboratory Experiences in Elementary Education. **Eight hours.**

Prerequisite: See prerequisite for Education 367.

This course is designed to meet the needs of experienced teachers who have taught on a full-time basis for a period of three years on a legal certificate and who are qualified under the regulations of the State Board of Education to use this course as a substitute for any part of or all of Student Teaching.

Topics: A study of the aims and functions of elementary education; analysis of good teaching practices; experiences in locating, collecting and organizing the materials in education; experiences in studying various kinds of activities including routine school duties, field trips, and extra-curricular programs; acquaintance with school organization, school policies, and records and reports; analysis of learning experiences involved in maintaining desirable pupil-teacher relationships; pupil-teacher planning and execution of plans; experiences in library readings, oral and written discussions, and limited observation and participation in an elementary classroom.

Education 463k. Student Teaching in the Kindergarten. **Three hours.**

Prerequisite: Education 367, 419, and 463.

Observation, participation, and supervised teaching in the kindergarten. Includes experiences such as child study and observation, lesson planning, classroom management, record keeping, development and use of instructional materials, and directed teaching. Planning and implementing appropriate learning experiences for the five-year old child will be stressed.

Education 463s. Laboratory Experiences in Secondary Education. **Eight hours.**

Prerequisite: See prerequisite for Education 364.

This course is designed to meet the needs of experienced teachers who have taught on a full-time basis for a period of three years on a legal certificate and who are qualified under the regulations of the State Board of Education to use this course as a substitute for any part or all of Student Teaching.

Topics: A study of the aims and functions of secondary education; analysis of good teaching practices; acquaintance with the latest studies and research dealing with: quality education, techniques of guidance and testing; grading, promoting and reporting; attendance, dropouts, and motivation; education for the gifted; meeting individual differeces and ability groupings; integrating school subjects; self evaluation for teachers; school organization, daily program, and curricular revision; place of extra-curricular activities in our schools; special problems of social studies in secondary schools; merit pay for teachers; professional ethics; and a growing educational philosophy; the American high school today and of the future; Kentucky's recently revised Foundation Program Law; review Retirement System; and new program of studies and accreditation policies.

LIBRARY SCIENCE

Juanita Phillips, Chairman

The program in Library Science is open to students of upper division standing who have demonstrated a good scholastic standing and evidence of fitness for school library work. A knowledge of the use of the typewriter is desirable. Those students desiring to continue their library education in a graduate library school are encourage to acquire the ability to read at least one modern foreign language.

Requirements for a Minor in Library Science:

Library Science 301, 311, 501, 521, 531, and *541	18 semester hours

Certification Requirements for the Elementary School Librarianship

An elementary teaching certificate based on a baccalaureate or master's degree will be valid for the elementary school librarianship, provided the following courses in library science have been completed:

School library organization and administration	3 semester hours
Books, references, and related materials for children and young people, which include the content of the course — Literature for Children	9 semester hours
Cataloging and classification	3 semester hours
School library practice	3 semester hours

(The requirement in school library practice may be met by one-third of the student teaching having been devoted to school library practice or by three semester hours in school library practice being taken in addition to the full amount required in student teaching.)

Certification Requirements for the High School Librarianship

A high school certificate based upon a baccalaureate or a master's degree will be valid for the high school librarianship, provided the following course in library science have been completed:

School library organization and administration	3 semester hours
Books, references, and related materials for children and young people, which include the content of the course-Literature for Children	9 semester hours
Cataloging and classification	3 semester hours

*If the student chooses to count Library Science 541 as part of the Student Teaching credit, Library Science 563 or 569 must be taken in addition to the courses listed.

(The requirement in school library practice may be met by one-third of the student teaching having been devoted to school library practice or by three semester hours in school library practice being taken in addition to the full amount required in student teaching.)

Note: The certificate for the elementary school librarianship may be validated for the high school or twelve-grade librarianship upon the completion of the course Fundamentals of Secondary Education. The certificate for the high school librarianship may be validated for the elementary school or for twelve-grade librarianship upon completion of the courses Fundamentals of Elementary Education and Teaching of Reading.

Library Science 301. (Formerly English 360.) Children's Literature and Related Materials. **Three hours.** I, II.

Prerequisites: English 101, 102, 211, and 212.

A study of poetry, fiction, folk and fairy stories, biography and other informational books. Criteria for judging each group and methods for using each group both for curriculum needs and recreational reading. Units on story telling, free and inexpensive materials, and aids in the selection of books and non-book materials are included.

Library Science 311. (Formerly School Library Management.) Organization and Administration of the School Library. **Three hours.** I, II.

This course covers the evaluation and organization of materials at hand; the ordering of new books and preparing them for circulation; classification; simple cataloging; setting up a simple loan system; use of student aid; knowledge of standard equipment and supplies; use, care, and repair of books; and the keeping of statistical records.

Library Science 501. (Formerly Library Science 401.) Young People's Literature. **Three hours.** I, II.

Study and selection of books for the adolescent. Stresses reading interests, levels and needs of young people as well as books and some material supplemental to the school curriculum.

Library Science 521. (Formerly Library Science 321.) Reference. **Three hours.** I.

This course is designed to extend the student's knowledge of general and specialized reference works. It is intended to provide information for satisfactory use of library resources. Materials used will be formal reference books, non-fiction books which may have reference value, periodicals and pamphlets. Special emphasis will be placed on the selection of reference books and on the preparation of bibliographies.

Library Science 531. (Formerly Library Science 331.) Classification and Cataloging. **Three hours.** I, II.

Prerequisite: Library Science 311.

Principles of simplified classification and cataloging will be studied with author, title, and subject cards being made. Attention will be centered on actual classification and cataloging of school library books. Some instruction in the cataloging of audio-visual aids will be given. Skill in typing is necessary.

Library Science 541. (Formerly Library Science 441.) School Library Practice. **Three hours.** I, II.

Prerequisite: Library Science 301, 311, and 521 and others except as may be taken at the same time as this course.

Library practice in the school library designed to give the trainee practical experience in many phases of school library service, including desk work, teaching children the use of reference materials, and assisting in the preparation of books for circulation. Reading guidance, story telling, and the organization of unit materials are stressed.

Library Science 563. (Formerly Library Science 463.) Instructional Materials for the School Library. **Three hours.** II.

Evaluation, selection, preparation, use and handling of non-book materials for the school library. Some preparation of free and inexpensive materials will be discussed.

Library Science 569. (Formerly Library Science 369.) Audio-Visual Methods. **Three hours.** I.

A survey of various types of audio-visual aids; with instruction in the utilization of pictures, maps, graphs, slides, records, recorders, projectors, and other audio-visual materials. (Also Education 369.)

GRADUATE DIVISION COURSES

Library Science 607. (Formerly Library Science 507.) Problems in Library Science. **One to three hours.** A.

Prerequisite: Approval of advisor and the chairman of the Department of Library Science.

This course is designed for graduate students who wish to do independent work on a problem in library science, or who wish to enroll in a special workshop or seminar focusing on a particular topic.

PSYCHOLOGY

Darwin R. Newton, Chairman

Recommended curriculum for a major in Psychology without right of teaching certificate. The first two years of this curriculum may be found in the Central University College section

Third Year

First Semester	Hours	Second Semester	Hours
Psychology 300	4	Psychology 302	3
Psychology Elective	3	Psychology Elective	3
General Studies 248	3	General Elective	12
General Elective	6		
	16		18

Fourth Year

Psychology 499	3	Psychology Elective	3
Psychology Elective	3	General Elective	12
General Elective	9		
	15		15

Recommended Curriculum for a Second Major in Psychology With Right of Teaching Certificate.

It is recommended that students pursuing a teacher certification program and a second major in Psychology include such courses as Anthropology 110, General Studies 248, and Mathematics 107 (or equivalents) in their preparation.

Recommended Curriculum for a Minor in Psychology

A student with a major in another department may take the following courses for a minor in Psychology: Psychology 211, 213, 498, and nine hours elective in Psychology.

PSYCHOLOGY

Psychology 211. General Psychology. **Three hours.** I, II.

Preview of psychology; factors in development; motivation; emotions; learning; the management of learning; thinking; personality and individual differences; intelligence; vocational and employment psychology; getting along with people; psychology and social problems.

Psychology 212. Applied Psychology. **Three hours.** I, II.

Prerequisite: Psychology 211.

A study of psychological factors in occupational choices and of applications in fields such as advertising, industry, law, medicine, and personnel work.

Psychology 213. Statistics and Experimental Method. **Three hours.** I, II.

Prerequisite: Psychology 211 and Mathematics 107 (or equivalent).

Introduction to the principles and methods of scientific psychology including an introduction to statistical procedures used in making decisions based on psychological data.

Psychology 300. (Formerly Psychology 400.) Learning. **Four hours.** I, II.

Prerequisite: Psychology 211 and 213.

Experimental study of learning, transfer and retention processes with an analysis of various kinds of learning. Three lecture and two laboratory hours.

Psychology 302. (Formerly Psychology 399.) Tests and Measurements. **Three hours.** I, II.

Prerequisite: Psychology 211.

Basic course in the principles of measurements with application to informal and standardized tests used in education, business, industry, and government. The problems of administration, scoring, and appraisal will be considered.

Psychology 308. Abnormal Psychology. **Three hours.** I, II.

Prerequisite: Psychology 211.

A study of the nature, causes, and prevalence of disorders of sensory and motor activities, memory, emotions, intelligence, and personality.

Psychology 312. (Formerly Psychology 310 and Psychology 312.) Child Psychology. **Three hours.** I, II.

Prerequisite: Psychology 211.

Focus on the physical, mental, social and personality development of the child from birth to puberty, with emphasis on adjustment to home, school, peers, and community. Role of parents, teachers, and other authority figures; effect of emotional disturbance on school achievement; sex education; development of self-concept; social class influences and origins of social attitudes.

Psychology 314. Adolescent Psychology. **Three hours.** I, II.

Prerequisite: Psychology 211.

Focus on the nature and sources of emotional, social, intellectual and personality problems of adolescents.

Psychology 315. Sensation and Perception. **Four hours.** I, II.

Prerequisite: Psychology 211 and 213.

Experimental study of sensation and perception—of the processes by which man knows the world through his senses. Three lecture and two laboratory hours.

Psychology 320. (Formerly Psychology of Learning.) Educational Psychology. **Three hours.** I, II.

Prerequisite: Psychology 211.

Focus on the psychological principles in relation to growing children; theories and processes of learning, maturation, individual differences and their measurement, personality problems and statistical procedures. Includes a critical examination of dominant concepts and principles involved in learning theories with emphasis on the role of habit formation and acquisition of motives.

Psychology 401. Psychology of Personality. **Three hours.** I, II.

Prerequisite: Psychology 211.

Basic approaches to the study of personality. Assumptions concerning the nature of man upon which these approaches are based will be related to various kinds of behavior.

Psychology 402. Industrial Psychology. **Three hours.** I, II.

Prerequisite: Psychology 211.

A survey of the methods and principles of psychology as they apply to business and industry. Emphasis will be on employee selection, classification, training and evaluation, optimum work environment, scheduling and procedures, and the relation between man and machines.

Psychology 410. Psychology of the Exceptional Child. **Three hours.** I, II.

Prerequisite: Psychology 211.

This course focuses on the psychological problems of children having superior or inferior intellectual ability. The course includes examination of research studies, procedures in identification of exceptional children and in assessing their potentials and limitations. Attention is also given in helping to plan for the social adjustment of such children.

Psychology 498. (Formerly Psychology 499.) Seminar in Psychology I. **Three hours.** I, II.

Prerequisite Fifteen hours in psychology and consent of instructor.

This seminar provides an intensive treatment of psychology through the opportunity to synthesize the various approaches to the study of psychology. Focus will include the history of psychology, principles and theories of learning, experimental psychology, motivation, emotions, perception, development, personality, counseling, and other areas. Concepts, methodology, and current developments in the aforementioned areas will be stressed. Recommended only for psychology minors.

Psychology 499. Seminar in Psychology II. **Three hours.** I, II.

Prerequisite: Nineteen hours in Psychology and consent of instructor.

Intensive treatment of principle areas in psychology toward a synthesis of approaches to these areas. Emphasis on contemporary approaches and problems. Recommended only for psychology majors.

Psychology 500. Social Psychology. **Three hours.** I, II.

Prerequisite: Psychology 211.

A study of social phenomena in terms of the original and acquired reaction systems of the individual. Special consideration given to group behavior, role status, attitudes, prejudice, crowds, mob behavior, propaganda, and nationalism.

Psychology 504. Psychology of Individual Differences. **Three hours.** I, II.

Prerequisite: Psychology 211 and 302.

The study and application of the facts of human variability including differences and factors related to differences in such areas as age, sex, class, intelligence, and achievement.

Psychology 507. (Formerly Psychology 503.) Problems in Psychology. **One-Three hours.** A.

Prerequisite: Psychology 211, 213, and approval of instructor.

Qualified students may outline and study a definite problem in some area of psychology for one, two, or three hours of credit. Amount of credit depends on nature and extent of the problem studied. Results must be presented in a formal paper.

GRADUATE DIVISION COURSES

Psychology 601. (Formerly Psychology 501.) Theories of Personality. **Three hours.** I.

Prerequisite: Psychology 211 and 401 or consent of instructor.

A study of personality beginning with theories of personality which include Freud, Rogers, Mowrer Dollard and Miller, and Gestalt Psychology. Contrast and comparison of these theories will be made. A synthesis of these theories will be made by each individual, after which the inter-relationship between personality and environment will be studied. Emphasis will be placed on aggression and frustration, anl how these affect the development of the personality.

Psychology 602. (Formerly Psychology 502.) Counseling Psychology. **Three hours. II.**

Prerequisite: Psychology 211 and 601.

Assumptions and facts fundamental to theories of counseling will be studied, along with such areas as factors of the interview setting, counseling techniques, resources in counseling, and the relationship of counseling to other school activities. An emphasis is placed upon the relationships of counseling theory to personality. Offers didactic experiences necessary for preparation to enter the counseling practicum.

Psychology 617. (Formelly Education 517.) Individual Intelligence Testing. **Three hours. II.**

Prerequisite: Psychology 211 and 302 (or equivalent) and consent of instructor.

Designed to build proficiency in administering and understanding individual intelligence tests. Includes study of purposes of individual intelligence tests, their make-up, and directions for administering. Each student is required to administer test to several children or adolescents and to interpret test findings.

PART VI

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A.B., Eastern Kentucky State College; A.M., University of Kentucky; Ed.D., Teachers College, Columbia University. At Eastern since 1960.

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Associate Professor of Education

B.A., College of Wooster; M.Ed., Ed.D., University of Florida. At Eastern since 1963.

JACK L. ADAMS, B.S., M.A. **Assistant Professor of Health and Physical Education**
Assistant Basketball Coach
Tennis Coach

B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1962.

KERNEY M. ADAMS, A.B., A.M. **Professor of History**

Diploma, Eastern Kentucky State Normal School; A.B., University of Kentucky; A.M., Cornell University; additional graduate work, Harvard University. At Eastern since 1928.

WILLIAM GIBSON ADAMS. B.A., M.A. **Instructor of Geography**

B.A., Stetson University; M.A., University of Kentucky; additional graduate work at University of Kentucky. At Eastern since 1966.

MARY AMELIA AKRIGHT, B.Music, M.Arts **Instructor of Music**

B. Music, M. Arts, University of Missouri; additional work, Detroit Conservatory, University of Michigan. At Eastern since 1962.

AIMEE H. ALEXANDER, A.B., M.A. **Assistant Professor of English**

A.B., Transylvania College; M.A., University of Kentucky; additional graduate work, Columbia University, George Peabody College for Teachers. At Eastern since 1961.

ANN ALGIER, B.A., M.A. **Instructor of Education**

B.A., University of Wyoming: M.A., University of New Mexico; additional graduate work at Adams State College, Colorado. At Eastern since 1966.

KEITH W. ALGIER, B.A., M.A., Ph.D. **Assistant Professor of History**

B.A., M.A., Ph.D., University of New Mexico. At Eastern since 1965.

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Dean of Admissions

A.B., Transylvania College; M.A., Ed.D., University of Kentucky. At Eastern since 1961.

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A.B., M.A., University of Kentucky; additional graduate work at George Peabody College for Teachers. At Eastern since 1959.

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B.A., Eastern Kentucky State College; M.A., George Peabody College for Teachers; Ph.D., New York University. At Eastern since 1966.

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Head Basketball Coach

B.S., Eastern Kentucky State College; M.S., Indiana University. At Eastern since 1958.

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B.A., College of William and Mary; M.A. University of Virginia; Ph.D., Georgetown University. At Eastern since 1966.

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B.Mus., Heidelberg College; M.F.A., Ohio University; additional graduate work, University of Illinois. At Eastern since 1954.

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B.A., University of Virginia; M.A., Duke University; Ph.D., University of Kentucky. At Eastern since 1965.

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Professor of Education

B.S. in Ed., Ball State University; University of Heidelberg, Germany; M.A., Ed.D., Teachers College, Columbia University. At Eastern since 1961.

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B.S., Southern Illinois University; M.A., George Peabody College; Ph.D., Texas Woman's University. At Eastern since 1965.

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Supervising Teacher, Laboratory School

B.S., M.A., Eastern Kentucky State College. At Eastern since 1966.

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B.S., Illinois College; M.S., Ph.D., University of Illinois. At Eastern since 1965.

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A.B., Brown University; B.S., M.S., Missouri School of Mines; Ph.D., University of Tennessee. At Eastern since 1966.

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B.S., M.B.A., University of Kentucky. C.P.A., Kentucky. At Eastern since 1966.

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B.S., A.R.C.S., Imperial College, London, England; M.S., Bucknell University; Ph.D., Brown University. At Eastern since 1966.

MARION MALONE BERGE, B.S., M.A. **Instructor of Nursing**

B.S., Eastern Kentucky State College: M.A., George Peabody College for Teachers. At Eastern since 1965.

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A.B., Eastern Kentucky State College; M.A., Vanderbilt University; additional graduate work, Vanderbilt University. At Eastern since 1961.

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A.B., M.A., Loyola University (Chicago); additional graduate work at Rutgers University. At Eastern since 1966.

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B.S., M.S., University of Kentucky; Ph.D., University of Michigan. At Eastern since 1947.

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Supervising Teacher, Laboratory School

A.B., Olivet College; M.A., Ball State University. At Eastern since 1965.

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B.A., State College of Iowa; M.A., Ball State Teachers College. At Eastern since 1965.

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Certificate, Minot State College; B.S., University of North Dakota; M.Ed., University of Minnesota; additional graduate work, University of Minnesota; University of Colorado. At Eastern since 1964.

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ALLEN C. BROCK, JR., A.A., B.S. in Ed., M.Ed. **Assistant Professor of English**

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B.Music, M.Music, University of Michigan; Ph.D., University of Texas. At Eastern since 1965.

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SYLVIA D. BURKHART, B.A.., M.A. **Instructor of German**

B.A., University of Kentucky; graduate work, University of Heidelberg; M.A., University of Cincinnati; additional graduate work, University of Cincinnati. At Eastern since 1965.

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B.S., University of Maryland; M.A., Kent State University. At Eastern since 1965.

ERNEST E. BYRN, B.S., M.S., Ph.D. **Professor of Chemistry**

B.S., M.S., Ph.D., University of Tennessee. At Eastern since 1966.

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* On Leave 1966-67

ROBERT L. BYRNE, B.S. in Ed., M.Ed., Ed.D. **Associate Professor of Education; Director, Reading Clinic**

B.S. in Ed., Ohio University; M.Ed., Kent State University; Ed.D., George Peabody College for Teachers. At Eastern since 1965.

HAROLD F. CAHALAN, B.A., M.A. **Assistant Professor of Social Science**

B.A., University of Notre Dame; M.A., University of Illinois; additional graduate work at University of Illinois. At Eastern since 1966.

JACK T. CALLENDER, A.B., M.A. **Assistant Professor of English**

A.B., Georgetown College; M.A., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1965.

JANE CAMPBELL, B.Mus., A.B., A.M. **Associate Professor of Music**

B.Mus., Taylor University; A.B., Ball State Teachers College; A.M., Teachers College, Columbia University; additional graduate study, Columbia University; Student, Ecole Normale de Musique, Paris; International Summer School, Oxford University, England; Mozarteum, Salzburg, Austria; Private student, Nadia Boulanger, Willem Durieux, Ferdinand Schaefer, Lieff Rosanoff, Isolde Ahlgrimm. At Eastern since 1926.

MARY E. CARROLL, B.A., M.S. **Assistant Professor of Home Economics**

B.A., Eastern Kentucky State College; M.S., University of Kentucky; additional graduate work, Ball State Teachers College and University of Kentucky. At Eastern since 1963.

DOROTHY ANN CARTER, B.A., M.A. **Instructor of French**

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B.S., Eastern Kentucky State College; M.A., University of Cincinnati. At Eastern since 1948.

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ANNE MARGARET CHASE, B.S., M.S., Ph.D. **Professor of Home Economics**

B.S., M.S., Indiana University; Ph.D., Ohio State University. At Eastern since 1965.

GARY K. CHASTAIN, B.S., M.S. **Assistant Professor of Industrial Education**

B.S., M.S., Indiana University. At Eastern since 1966.

JOHN H. CHISHOLM, B.Ed., M.Ed. **Instructor of Elementary Education, Supervising Teacher, Laboratory School**

B.Ed., M.Ed., University of Miami; additional graduate work, Eastern Kentucky State College. At Eastern since 1964.

HAZEL L. CHRISMAN, B.A., M.A. **Associate Professor of English**

B.A., Berea College; M.A., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1959.

RICHARD G. CHRISMAN, B.A., M.A. **Professor of Economics**

B.A., Berea College; M.A., University of Kentucky; additional graduate work, University of Pittsburgh, University of Denver. At Eastern since 1951.

WILLIAM H. CLAY, A.B., M.A. **Assistant Professor of Social Science**

A.B., Eastern Kentucky State College; M.A., University of Kentucky; additional graduate work at University of Kentucky. At Eastern since 1966.

J. DORLAND COATES, B.S., M.A., Ph.D. **Professor of Secondary Education; Associate Dean, College of Education**

B.S., Eastern Kentucky State College; M.A., George Peabody College for Teachers; Ph.D., Colorado State College of Education; post-doctoral work, University of Chicago. At Eastern since 1931.

LARUE COCANOUGHER, A.B., M.A., Ed.D. **Professor of Education**
Dean for Continuing Education

A.B., Centre College; M.A., Ed.D., George Peabody College for Teachers. At Eastern since 1966.

STEPHEN H. COE, A.B., M.A. **Assistant Professor of Social Science**

A.B., Brown University; M.A., The American University; additional graduate work at The American University. At Eastern since 1966.

FLOYD W. COLEMAN, A.B., M.Ed. **Assistant Professor of Education**

A.B., Friends University; M.Ed., Ohio University; additional graduate work, University of Kentucky. At Eastern since 1966.

DONALD COMBS, B.S., M.A. **Assistant Professor of Health and Physical Education; Coach of Swimming Team**

B.S., M.A., Eastern Kentucky State College. At Eastern since 1963.

ANNA M. CORNELISON, B.S., M.A. **Instructor of Elementary Education**
Supervising Teacher, Laboratory School

B.S., M.A., Eastern Kentucky State College; additional graduate work, Eastern Kentucky State College. At Eastern since 1963.

FRED H. CORNELIUS, A.B., M.A. **Instructor of English**

A.B., Georgetown College; M.A., University of Kentucky; additional graduate work at University of Kentucky. At Eastern since 1965.

EFFIE CREAMER, B.S., M.S., Ph.D. **Associate Professor of Home Economics**

B.S., Berea College; M.S., Ph.D., Texas Woman's University. At Eastern since 1966.

GLYNN N. CREAMER, B.A., M.Ed. **Assistant Professor of Mathematics**

B.A., M.Ed., North Texas State University; additional graduate work, North Texas State University. At Eastern since 1966.

JACK E. CREECH, A.B., M.A. **Assistant Professor of History, Supervising Teacher, Laboratory School**

A.B., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1956.

MARY ELLEN CURTIN, B.S., M.S., Ph.D. **Assistant Professor of Psychology**

B.S., M.S., Ph.D., University of Kentucky. At Eastern since 1965.

FRED DARLING, B.S., M.A., M.A. in Ed., Dir.R., Dir.P.E., Re.D. **Professor of Health and Physical Education**

B.S., M.A., Eastern Kentucky State College; M.A. in Ed., University of Kentucky; Dir.R., Dir.P.E., Re.D., Indiana University. At Eastern since 1946.

JOHN EDWIN DAVIDSON, B.S., M.S., Ph.D. **Assistant Professor of Chemistry**

B.S., M.S., Ph.D., University of Tennessee. At Eastern since 1965.

J. HOMER DAVIS, B.S., M.Ed. **Associate Professor of Industrial Arts**

B.S., Eastern Kentucky State College; M.Ed., University of Missouri; additional graduate work, University of Kentucky; Penn State University. At Eastern since 1949.

DANIEL R. DEANE, JR., A.B., M.A. **Assistant Professor of Art Supervising Teacher, Laboratory School**

A.B., M.A., University of Kentucky; additional graduate work, Eastern Kentucky State College, University of Kentucky. At Eastern since 1962.

JOHN M. DECK, B.S., M.S., P.E.Dir., P.E.D. **Associate Professor of Health and Physical Education**

B.S., Central Methodist College; M.S., P.E.Dir., P.E.D., Indiana University. At Eastern since 1964.

JOHNNY DEAN DELAIGLE, A.B. **Instructor of Physics**

A.B., Berry College; additional graduate work at Wake Forest College. At Eastern since 1965.

RONALD A. deLANGLADE, B.A., M.S., Ph.D. **Associate Professor of Biology**

B.A., Wabash College; M.S., Ph.D., Purdue University. At Eastern since 1964.

MILDRED ANN DICKINSON, A.B., M.A. **Instructor of English**

A.B., University of Kentucky; M.A., University of California; additional graduate work, University of California. At Eastern since 1966.

DARRELL D. DOBBS, A.B., M.S. **Assistant Professor of Psychology**

A.B., University of Michigan; M.S., University of Kentucky. At Eastern since 1966.

NEAL DONALDSON, B.S., M.A. **Dean of Business Affairs**

B.S., M.A., University of Kentucky. At Eastern since 1965.

RANDOLPH DOZIER, A.B., M.A. **Assistant Professor of Art**

A.B., M.A., Eastern Kentucky State College. At Eastern since 1959.

***LATHEL F. DUFFIELD, B.A., M.A.** **Assistant Professor of Anthropology and Sociology**

B.A., M.A., University of Oklahoma; additional graduate work, University of Tulsa, University of San Carlos (Guatemala), University of Arizona, University of Texas. At Eastern since 1964.

JOHN L. DUNHAM, B.S., M.A. **Instructor of Business Education**

B.S., M.A., University of Cincinnati. At Eastern since 1966.

M. J. DUSZAK, M.A., Ph.D. **Associate Professor of History**

M.A., Jagellonian University, Poland; Ph.D., University of Paris, Sorbonne, Paris, France. At Eastern since 1965.

LUCY EAST, A.B., M.A. **Assistant Professor of English**
Supervising Teacher, Laboratory School

A.B., M.A., Eastern Kentucky State College; additional graduate work, Eastern Kentucky State College. At Eastern since 1962.

MATTHEW S. EMERSON, B.A., M.S. **Instructor of Geography and Geology**

B.A., College of Wooster; M.S., University of Tennessee. At Eastern since 1964.

FRED A. ENGLE, JR., B.S., M.B.A., Ed.D. **Associate Professor of Business**

B.S., Eastern Kentucky State College; M.B.A., Ed.D., University of Kentucky. At Eastern since 1959.

DAVID M. EPSTEIN, B.A., M.A. **Assistant Professor of History**

B.A., M.A., University of Kansas City; additional graduate work, University of Nebraska. At Eastern since 1963.

BERTHA JEAN FANJOY, B.S., M.A. **Associate Professor of Nursing**

B.S., M.A., Teachers College, Columbia University. At Eastern since 1965.

DONALD R. FELTNER, B.S., M.A. **Assistant Professor of Journalism**
Dean of Public Affairs

B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1956.

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* On Leave 1966-67

CACUS P. FLESHER, B.S., M.A. Assistant Professor of Education

B.S., Eastern Kentucky State College; M.A., University of Kentucky. At Eastern since 1962.

***BEN V. FLORA, JR., B.S., M.A.** Assistant Professor of Mathematics

B.S., Eastern Kentucky State College; M.A., George Peabody College for Teachers; additional graduate work, University of Illinois, Ohio State University. At Eastern since 1961.

NANCY KIRKHAM FORDERHASE, A.B., M.A. Instructor of History

A.B., State University of South Dakota; M.A., University of Missouri; additional graduate work at University of Missouri. At Eastern since 1966.

RUDOLPH EUGENE FORDERHASE, A.B., A.M. Assistant Professor of History

A.B., A.M., University of Missouri; additional graduate work at University of Missouri. At Eastern since 1966.

BARRY C. FOX, B.A., M.A., Ph.D. Assistant Professor of History

B.A., Albion College; M.A., Ph.D., Western Reserve University. At Eastern since 1964.

ADRIANNA H. FRANCIS, B.S., M.A. Instructor of Elementary Education
Supervising Teacher, Laboratory School

B.S., Pikeville College; M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky and Eastern Kentucky State College. At Eastern since 1963.

SARAH EVELYN FRANCIS, B.S., M.A., Ed.D. Professor of Education

B.S., M.A., East Tennessee State University; Ed.D., Indiana University. At Eastern since 1966.

DAISY B. FRENCH, B.S., M.A. Assistant Professor of Business

B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1956.

JOHN GASKINS, B.S.Ed., M.Ed. Assistant Professor of Education

B.S.Ed., M.Ed., Kent State University; additional graduate work at Kent State University. At Eastern since 1966.

DWIGHT DEAN GATWOOD, A.A., B.S., M.A. Associate Professor of Art

A.A., B.S., M.A., George Peabody College for Teachers; additional graduate work, Ohio State University, New York University, Indiana University. At Eastern since 1947.

***RICHARD LEE GENTRY, B.S., M.A.** Assistant Professor of Health and Physical Education

B.S., M.A., Eastern Kentucky State College; graduate work, University of Kentucky. At Eastern since 1964.

* On Leave 1966-67

TED M. GEORGE, B.A., M.A., Ph.D. **Professor of Physics**

B.A., M.A., Ph.D., Vanderbilt University. At Eastern since 1964.

WILLIAM H. GERLACH, B.A., LL.B., M.A. **Assistant Professor of Political Science**

B.A., Dickinson College; LL.B., Dickinson School of Law; M.A., University of Kentucky. At Eastern since 1964.

***CHARLES H. GIBSON, JR., B.S., M.A.** **Associate Professor of Industrial Arts**
Supervising Teacher, Laboratory School

B.S., M.A., Eastern Kentucky State College; additional graduate work, Eastern Kentucky State College, University of Kentucky. At Eastern since 1962.

NEWELL T. GILL, B.A., M.A., Ed.D **Assistant Professor of Education and Psychology**

B.A., M.A., Ed.D., University of Florida. At Eastern since 1965.

HUGH RONALD GILLILAND, B.S., M.S. **Associate Professor of Industrial Technology**

B.S. M.S., Northwest State College (Louisiana); additional graduate work at University of Missouri. At Eastern since 1966.

R. PARKER GOWING, B.A., M.B.A **Assistant Professor of Business**

B.A., Princeton University; M.B.A., Xavier University; additional graduate work, Indiana University. At Eastern since 1964.

JAMES A. GRAY, B.S., M.S. **Assistant Professor of Industrial Arts**

B.S., M.S., Indiana State College; additional graduate work, Indiana State College, Ball State Teachers College. At Eastern since 1964.

LLOYD J. GRAYBAR, A.B., M.A. **Assistant Professor of History**

A.B., Middlebury College; M.A., Columbia University; additional graduate work at Columbia University. At Eastern since 1966.

KENNETH D. GRIFFITH, B.S., C.P.A. **Assistant Professor of Accounting**

B.S., Eastern Kentucky State College. At Eastern since 1965.

ROBERT N. GRISE, A.B., M.A., Ed.D. **Associate Professor of Education**

A.B., M.A., Eastern Kentucky State College; Ed.D., University of Kentucky. At Eastern since 1963.

GERALD K. GROSE, B.S., M.S. **Assistant Professor of Music**

B.S., M.S., University of Illinois; additional graduate work, University of Illinois. At Eastern since 1966.

BARNEY R. GROVES, B.S., M.S., Ph.D. **Assistant Professor of Health and Physical Education, Intramural Director**

B.S., Southeastern State College, Oklahoma; M.S., Oklahoma University; Ph.D., Florida State University. At Eastern since 1964.

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* On Leave 1966-67.

PATSY P. GROVES, B.S., M.S. — **Instructor of Elementary Education**
Supervising Teacher, Laboratory School

B.S., M.S., Southeastern State College, Oklahoma; additional graduate work, Florida State University and Eastern Kentucky State College. At Eastern since 1964.

NORVALINE C. HALE, B.S., M.A. — **Associate Professor of Business**

B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky, Indiana University. At Eastern since 1957.

LOIS Y. HAMM, B.S., M.S. — **Counselor**

B.S., M.S., Eastern Kentucky State College; additional graduate work at University of Kentucky. At Eastern since 1966.

DONALD C. HANEY, B.S., M.S., Ph.D. — **Associate Professor of Geology**

B.S., M.S., University of Kentucky; Ph.D., University of Tennessee. At Eastern since 1962.

KENNETH S. HANSSON, B.S., M.Ed., Ph.D. — **Associate Professor of the Kentucky School of Crafts**

B.S., Southern Illinois University; M.Ed., Ph.D., University of Missouri. At Eastern since 1966.

ROBERT EDWARD HARPER, B.S., M.A. — **Instructor of Mathematics**

B.S., State University of New York at Fredonia; M.A., University of Kentucky. At Eastern since 1966.

ADRIAN S. HARRIS, B.A., M.A. — **Assistant Professor of Speech and Drama**

B.A., M.A., University of Iowa. At Eastern since 1966.

JAMES S. HARRIS, A.B., M.A. — **Associate Professor of Education**
Director of Instructional Services

A.B., University of Kentucky; M.A., University of Illinois. At Eastern since 1965.

SUSAN B. HARRIS, B.S., M.A. — **Instructor of Speech**

B.S., Murray State College; M.A., University of Missouri. At Eastern since 1965.

PHILLIP H. HARRIS, B.A., M.A. — **Instructor of Art**

B.A., M.A., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1964.

ROBERT H. HARVILLE, B.S., M.A. — **Instructor of Health and Physical Education**
Assistant Football Coach

B.S., M.A., Eastern Kentucky State College; additional graduate work at Eastern Kentucky State College. At Eastern since 1965.

ALDEN O. HATCH, B.S. — **Director of Housing**

B.S., University of Utah. At Eastern since 1965.

BETTY K. HATFIELD, A.B., M.S. in LS. — **Assistant Professor of Library Science**

A.B., M.S. in L.S., University of Kentucky. At Eastern since 1963.

GLENN W. HAYES, B.S., M.Ed., Ed.D. **Assistant Professor of Agriculture**

B.S., M.Ed., Ed.D., University of Illinois. At Eastern since 1966.

ROBERT HAYES, B.A., M.A. **Counselor**

B.A., Berea College; M.A., Eastern Kentucky State College; additional graduate work at University of Kentucky. At Eastern since 1964.

SUSIE HAYES, B.S., M.Ed. **Instructor of Elementary Education**
Supervising Teacher, Laboratory School

B.S., M.Ed., University of Illinois. At Eastern since 1966.

GLYNNA J. HAYS, B.S., M.S. **Instructor of Home Economics**
Supervising Teacher, Laboratory School

B.S., Eastern Kentucky State College; M.S., University of Kentucky; additional graduate work at Eastern Kentucky State College. At Eastern since 1963.

***DONALD G. HENRICKSON, B.Mus., M.Mus.** **Assistant Professor of Music**

B.Mus., M.Mus., University of Illinois; additional graduate work, University of Illinois, Florida State University. At Eastern since 1959.

THOMAS C. HERNDON, A.A., B.S., M.A., Ph.D. **Professor of Chemistry**

A.A., Bethel College; B.S., University of Kentucky; graduate work, University of Chicago; M.A., Ph.D., George Peabody College for Teachers. At Eastern since 1930.

JANET HIBBARD, B.S., M.A. **Assistant Professor of Business**

B.S., M.A., Eastern Kentucky State College. At Eastern since 1961.

ROBERT J. HIGGS, B.S., M.A. **Assistant Professor of English**

B.S., U.S. Naval Academy; M.A., University of Tennessee; additional graduate work at University of Tennessee. At Eastern since 1966.

BENTLY J. HILTON, A.B., M.A., Ed.S. **Assistant Professor of Social Science**
Director of Counseling

A.B., M.A., Eastern Kentucky State College; Ed.S., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1960.

DOUGLAS P. HINKLE, B.A., M.A. **Associate Professor of Foreign Languages**

B.A., M.A., University of Virginia; additional graduate work, Illinois State University. At Eastern since 1965.

JACQUELINE HOFFMAN, B.S., M.A. **Assistant Professor of Elementary Education, Supervising Teacher, Laboratory School**

B.S., M.A., Eastern Kentucky State College. At Eastern since 1965.

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* On Leave 1966-67.

EMOGENE M. HOGG, B.S., M.A., Ed.D. **Associate Professor of Business**

B.S., Berea College; M.A., Eastern Kentucky State College; Ed.D., University of Tennessee. At Eastern since 1960.

LAVERNE HOLCOMB, B.S., M.A. **Instructor of Education**

B.S., Eastern Kentucky State College; M.A., University of Kentucky; additional graduate work at University of Kentucky and Eastern. At Eastern since 1966.

GERTRUDE M. HOOD, A.B., A.M. **Associate Professor of Health and Physical Education**

A.B., Ohio Wesleyan University; A.M., Columbia University. At Eastern since 1928.

WILLIAM A. HOUSEHOLDER, B.S. M.S. Ph.D. **Professor of Agriculture**

B.S., Colorado State University; M.S., Cornell University; Ph.D., Michigan State University. At Eastern since 1965.

WILBUR RUSSELL HOUSTON, M.D. **Campus Physician**

M.D., Eclectic Medical College. At Eastern since 1966.

AUGHTUM S. HOWARD, A.B., M.S., Ph.D. **Professor of Mathematics**

A.B., Georgetown College; M.S., Ph.D., University of Kentucky. At Eastern since 1958.

JOSEPH M. HOWARD, B.S., A.M., Ed.D. **Professor of Education**

B.S., Western Kentucky State College; A.M., George Peabody College; Ed.D., Teachers College, Columbia University. At Eastern since 1962.

DAVID HUFFSTETLER, B.S., M.S. **Instructor of Health and Physical Education**

B.S., Maryville College; M.S., Indiana University. At Eastern since 1965.

CHARLES T. HUGHES, A.B., M.A. **Professor of Health and Physical Education**

Diploma, Morton-Elliott Junior College; A.B., University of Kentucky; M.A., University of Michigan. At Eastern since 1929.

ROBERT L. HUNGARLAND, B.S., M.B.A. **Assistant Professor of Business**

B.S., Oklahoma City University; M.B.A., Southern Methodist University; additional graduate work, University of Kentucky. At Eastern since 1964.

MARY K. INGELS, A.B., M.A. **Dean of Women**
Assistant Professor of Foreign Languages

A.B., M.A., Eastern Kentucky State College; study tour, Ohio University; graduate study, Appalachian State Teachers College, Boone, North Carolina; L'Universite' de Besancon, France. At Eastern since 1961.

MABEL W. JENNINGS, B.S., M.A., Ed.S. **Associate Professor of Education**

B.S., M.A., Eastern Kentucky State College; Ed.S., University of Kentucky; additional graduate work, University of Chicago, University of Kentucky. At Eastern since 1947.

VIRGINIA N. JINKS, B.S. in Ed., M.A. **Assistant Professor of Health and Physical Education**

B.S. in Ed., Bowling Green State University; M.A., Eastern Kentucky State College. At Eastern since 1963.

ROBERT W. JOBES, B.S., M.A. **Assistant Professor of Mathematics**

B.S., University of Southern Mississippi; M.A., University of Illinois. At Eastern since 1964.

JOE M. JOHNSON, B.S., M.A. **Assistant Professor of Speech and Drama**

B.S., M.A., University of Georgia; additional graduate work, Emory University. At Eastern since 1962.

PATRICIA JOHNSON, B.A., M.A. **Assistant Professor of Health and Physical Education**

B.A., M.A., Morehead State College; additional graduate work, New York University, Ball State University. At Eastern since 1966.

JO NELL JONES, A.B., M.A. **Assistant Professor of Business**

A.B., Bowling Green College of Commerce; M.A., Western Kentucky State College. At Eastern since 1964.

MARILYN EVANS JONES, B.A., M.A. **Instructor of English**

B.A., University of Kentucky; M.A., Yale University; additional graduate work, University of Kentucky, Yale Summer Language Institute, and Bread Loaf School of English. At Eastern since 1966.

SANFORD L. JONES, B.S., M.S., Ph.D. **Professor of Biology**

B.S., Eastern Kentucky State College; M.S., University of Kentucky; Ph.D., Medical School, University of Tennessee. At Eastern since 1961.

W. C. JONES, B.S., M.A., Ph.D. **Professor of Education**

B.S., East Texas University; M.A., Colorado State College; Ph.D., George Peabody College. At Eastern since 1966.

SHIRLEY KEARNS, JR., A.B., M.A. **Assistant Professor of Physical Education**
Supervising Teacher, Laboratory School

A.B., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky, Eastern Kentucky State College. At Eastern since 1962.

THOMAS S. KEEFE, B.S., M.S., Ph.D. **Assistant Professor of Biology**

B.S., M.S., University of South Carolina; Ph.D., University of Georgia. At Eastern since 1966.

QUENTIN B. KEEN, B.A., M.A., M.A.Ed., Ph.D. **Professor of History**

B.A., Berea College; M.A., Duke University; M.A.Ed., Eastern Kentucky State College; Ph.D., University of California at Los Angeles; post graduate work, University of Kentucky. At Eastern since 1955.

LLOYD KEETON, A.B., M.A. **Assistant Professor of Social Science**

A.B., Georgetown College; M.A., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1965.

LETTY L. KELLY, B.E., M.A. **Instructor of Elementary Education**
Supervising Teacher, Laboratory School

B.E., Fresno State, California; M.A., Eastern Kentucky State College; additional graduate work, Eastern Kentucky State College. At Eastern since 1964.

KARL KEMP, A.B., M.A. **Assistant Professor of Business**

A.B., M.A., Western Kentucky State College; additional graduate work at Western Kentucky State College, Eastern Kentucky State College. At Eastern since 1963.

ROY KIDD, B.S., M.A. **Assistant Professor of Health and Physical Education, Head Football Coach**

B.S., M.A., Eastern Kentucky State College. At Eastern since 1963.

SE JIN KIM, B.A., M.A., Ph.D. **Assistant Professor of Political Science**

B.A., Southwestern at Memphis; M.A., Ph.D., University of Massachusetts. At Eastern since 1962.

ROBERT G. KING, A.B., M.A., Ph.D. **Professor of Speech and Drama**

A.B., Georgetown College; M.A., Ph.D., Teachers College, Columbia University. At Eastern since 1965.

EDWARD KIRK, B.A., M.F.A. **Instructor of Art**

B.A., Denison University of Ohio; M.F.A., Ohio University; additional graduate work, Ohio University. At Eastern since 1966.

DOROTHY KIRKPATRICK, B.S., M.S. **Assistant Professor of Health and Physical Education**

B.S., Winthrop College; M.S., University of Tennessee. At Eastern since 1962.

LARRY D. KLEIN, B.A., M.A. **Instructor of Social Science**

B.A., Kansas Wesleyan University; M.A., University of Omaha; additional graduate work, University of Kansas. At Eastern since 1965.

NICHOLAS J. KOENIGSTEIN, B.S., M.Mus. **Assistant Professor of Music**
Director of Bands

B.S., Western Kentucky State College; M.Mus., West Virginia University. At Eastern since 1956.

KARL FRANCIS KUHN, B.A., M.S. **Instructor of Physics**

B.A., Bellarmine College; M.S., University of Kentucky. At Eastern since 1966.

ROBERT L. LADD, A.B., M.A. **Associate Professor of Foreign Languages**

A.B., Carson Newman College; M.A., George Peabody College; additional graduate work, Xavier University, Peabody College, University of Kentucky, Miami University. At Eastern since 1963.

H. H. LaFUZE, A.B., M.S., Ph.D. **Professor of Biology**

A.B., DePauw University; M.S., Ph.D., State University of Iowa; post graduate work, Northwestern University. At Eastern since 1939.

NANCY LANCASTER, B.M., M.M. **Instructor of Music**

B.M., M.M., University of Oklahoma; additional graduate work, University of Southern California. At Eastern since 1962.

THOMAS S. LANCASTER, B.M.E., M.M. **Instructor of Music**

B.M.E., M.M., Indiana University; additional graduate work, University of Illinois. At Eastern since 1964.

BENNIE R. LANE, B.A., M.A., Ph.D. **Professor of Mathematics**

B.A., M.A., Colorado State College; Ph.D., George Peabody College. At Eastern since 1966.

ROBERT S. LARANCE, B.S., M.S. **Associate Professor of Biology**

B.S., Louisiana Polytechnic Institute; M.S., Louisiana State University; additional graduate work, Louisiana State University. At Eastern since 1956.

ROBERT M. LATHROP, B.S., M.A. **Assistant Professor of Geography**

B.S., University of Kentucky; M.A., University of Georgia; additional graduate work, University of Georgia. At Eastern since 1964.

CHARLES LATTA, B.A., M.A. **Instructor of English**

B.A., M.A., University of Louisville. At Eastern since 1966.

CLYDE J. LEWIS, A.B., M.A., Ph.D. **Dean, Central University College**
Professor of History

A.B., Eastern Kentucky State College; M.A., University of Cincinnati; Ph.D., University of Kentucky. At Eastern since 1946.

W. LAVON LEWIS, B.S., M.S. **Assistant Professor of Geology**

B.S., M.S., University of Kentucky. At Eastern since 1965.

RAYMOND J. LEWIS, B.S., M.A. **Assistant Professor of Social Science**

B.S., M.A., Kent State University; additional graduate work, Kent State University, University of Arizona, and the University of Kentucky. At Eastern since 1965.

DONALD LORD, A.B., M.A., Ph.D. **Assistant Professor of History**

A.B., Oberlin College; M.A., Ph.D., Western Reserve University; additional graduate work, Western Reserve University. At Eastern since 1964.

***VICTOR LOTRICH, B.A., M.A.** **Instructor of Biology**

B.A., M.A., Colorado State College; additional graduate work, Kansas State University. At Eastern since 1964.

JACK A. LUY, B.S., M.S., Ed.D. **Associate Professor of Industrial Arts**
Associate Dean, College of Applied Arts and Technology

B.S., M.S, Stout State University; Ed.D., University of Missouri. At Eastern since 1964.

LOUISE BOOTH LYONS, B.S., M.A., Ed.S. **Assistant Professor of Library Science**

B.S., M.A., East Tennessee State College; Ed.S., University of Kentucky. At Eastern since 1961.

* On Leave 1966-67.

RUTH A. McCANN, B.S., M.A. **Instructor of Business**
Supervising Teacher, Laboratory School

B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1962.

ALVIN McGLASSON, B.S., M.S. **Associate Professor of Mathematics**

B.S., Eastern Kentucky State College; M.S., University of Kentucky; additional graduate work, University of Kansas, University of Missouri. At Eastern since 1949.

ROBERT F. McGUIRE, A.B., M.S. **Instructor of Mathematics and Science**
Supervising Teacher, Laboratory School

A.B., Union College; M.S., University of Tennessee; additional graduate work at University of Tennessee and Eastern Kentucky State College. At Eastern since 1964.

WILLARD THOMAS McHONE, A.B., M.Ed. **Assistant Professor of Art**

A.B., Eastern Kentucky State College; M.Ed., University of Louisville; additional graduate work, University of Kentucky, Indiana University. At Eastern since 1955.

ALEX GENTRY McILVAINE, B.S., M.A. **Professor of Business**

B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1947.

FRANCES M. McPHERSON, B.Mus., M.Mus. **Associate Professor of Music**

B.Mus., Lindenwood College; M.Mus., Michigan State College; student, Rudolph Ganz, John Thompson, Horner Conservatory; Academie Marshall, Barcelona, Spain; Xavier Montsalvatge, composition; Aliia de Larrocha, piano. At Eastern since 1944.

ARTHUR J. MANGUS, JR., A.B., M.A. **Assistant Professor of English**

A.B., Concord College; M.A., Marshall College; additional graduate work, University of Kentucky. At Eastern since 1959.

PHILIP H. MANKIN, B.S., M.A. **Associate Professor of English**

B.S., M.A., George Peabody College for Teachers; additional graduate work, Vanderbilt University. At Eastern since 1957.

WALTER MARCUM, B.S., M.A. **Associate Professor of Education**
Director of the Laboratory School

B.S., Union College; M.A., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1964.

WADE E. MARLETTE, A.B., Ph.D. **Assistant Professor of Philosophy**

A.B., Erskine College; Ph.D., University of North Carolina. At Eastern since 1966.

***H. J. MARSHALL, B.A., M.Ed.** **Assistant Professor of Art**

B.A., University of Idaho; Special Training, New York School of Interior Design; M.Ed., Miami University, Oxford, Ohio; advanced work, Pond Farm Pottery, Marguerite Wildenhain, Guerneville, California, Summer Studio; advanced graduate work, Ohio State University. At Eastern since 1965.

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* On Leave 1966-67.

HENRY G. MARTIN, B.A., M.A., Ed.D. Vice-President for Student Affairs
Dean of Students

B.A., Berea College; M.A., University of Kentucky; Ed.D., University of Tennessee. At Eastern since 1955.

LARRY O. MARTIN, B.S., M.A. Assistant Professor of Industrial Arts
Director of Auxiliary Enterprises

B.S., M.A., Eastern Kentucky State College. At Eastern since 1960.

MARGARET HEINEN MATHENY, B.A., M.A. Instructor of English

B.A., College of St. Catherine, St. Paul, Minnesota; M.A., University of North Carolina. At Eastern since 1965.

DANIEL H. MATULIONIS, B.S., M.S. Instructor of Biology

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